Introduction

Innovation and cost effective access control solutions are the corner stones on which the ACT business has been developed. We are committed to bringing you secure, robust and aesthetically pleasing products that fulfil access control requirements for domestic dwellings, medium size businesses and large scale enterprises spread over multiple sites.

ACT supplies Access Control and Door Entry products to the market. This catalogue has been put together to provide a comprehensive overview of all products available from ACT, both own brand and third party. It also includes helpful installation tips and schematics to highlight how the products work together.

The **Access Control** products are sold under the brands **standalone**, **smart** and **pro**. The **standalone** products are suited to doors where the only requirements are entry and exit. With a variety of features they offer a low cost access control solution for both domestic and commercial properties. The **smart** range is designed to be a cost effective and highly flexible access control system for small to medium sized commercial buildings and can operate as standalone or networked. The **pro** products provide a highly flexible, scalable access control system designed to facilitate the most demanding requirements for any size enterprise.

The Door **Entry** products are sold under the **Entry** brand. Entry products are designed for both domestic and commercial properties. They use audio and audio video over IP to enable the identity of the visitor to be determined prior to granting access.

ACT offers a high level of product support through a wide range of ancillary services including Technical Support, Training, On Site Support, Tender & Specification Consultation, Bespoke System Design and System Integration Solutions.

Eilish Minihane
Marketing Executive, ACT

ACT stand alone

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Standalone Digital Keypads

ACT 10 Digital Keypad

Features

- pin only digital keypad
- 10 user codes
- 2 user groups
- push to exit input
- incorrect code lockout
- door monitoring / contact input
- tamper output
- fire alarm override
- interlock
- toggle mode
- 12 - 24 Volt AC / DC supply
- 2 x 5 amp, 30 Volt DC relays
- 2 x 100 mA Darlington Driver outputs
- zinc diecast housing, stainless steel keys
- keypad backlighting
- indoor / outdoor (IP54)

ACT stand alone

Product Code ACT 10

(includes digital keypad, 2 varistors & manual)

Related Products

ACT 10 Flush Kit p 3
ACT 10 Weather Shield p 3

ACT 5 Digital Keypad

Features

- pin only digital keypad
- 10 user codes
- push to exit input
- incorrect code lockout
- toggle mode
- 5 amp, 30 Volt DC relay
- polycarbonate housing, stainless steel keys
- keypad backlighting
- potted electronics
- indoor / outdoor (IP67)
- surface / flush mount options
- mounts on to standard single gang electrical back box

Product Code ACT 5

(includes digital keypad, flush mount plate, surface mount collar, 1 varistor & manual)

When Performance Counts

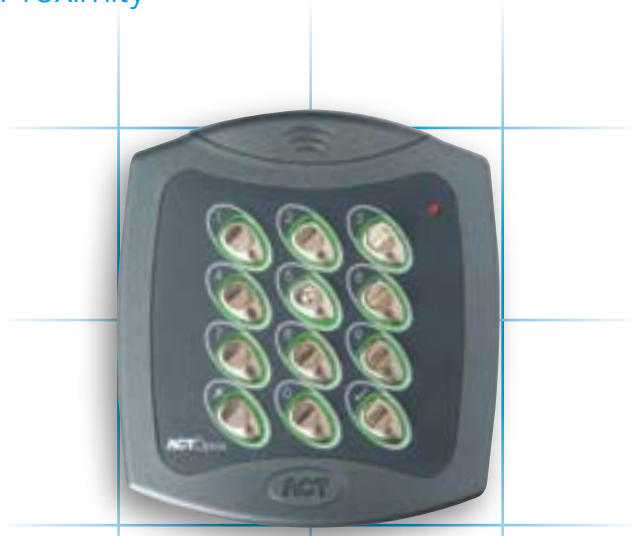
Digital Keypad + Proximity (125 kHz)

ACT 5prox Pin & Proximity

ACT stand alone

Features

- pin & proximity digital keypad
- 50 user codes & 50 cards / fobs
- push to exit input
- incorrect code lockout
- toggle mode
- 5 amp, 30 Volt DC relay
- polycarbonate housing with stainless steel keys
- keypad backlighting
- potted electronics
- indoor / outdoor (IP67)
- surface / flush mount options
- mounts on to standard single gang electrical back box



Product Code ACT 5prox

(includes digital keypad, flush mount plate, surface mount collar, 1 varistor & manual)

For use with ACT 5prox

for a full list of ACT cards & fobs see page 4

Keypad Accessories

ACT 10 Flush Kit

Features

- Stainless steel flush mount kit for the ACT 10 digital keypad

Product Code ACT 10FK

ACT 10 Weather Shield

Features

- Stainless steel weather shield cover plate for the ACT 10 digital keypad

Product Code ACT 10WS

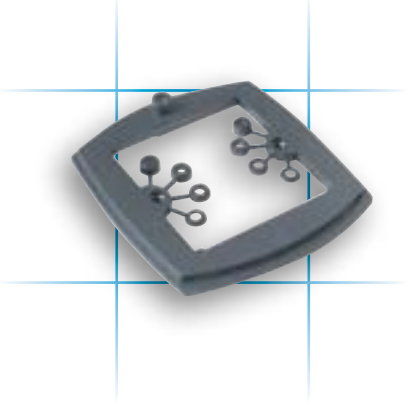
ACT stand alone

Flush Mount Plate

Features

- flush mount plate for the ACT 5 / 5prox
- fits standard single gang electrical back box

Product Code included with device

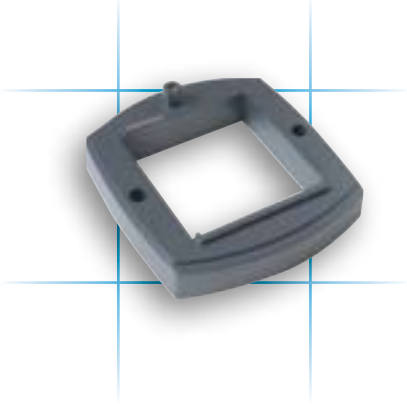


Surface Mount Collar

Features

- surface mount collar for the ACT 5 / 5prox
- fits standard single gang electrical back box

Product Code included with device



ACT stand alone

Proximity Cards & Fobs (125 kHz)

ACTProx Fob

Features

- ACT proximity key fob
- max range of up to 8cm
- extremely robust
- supplied in pack of 10

Product Code ACTProx Fob-B

ACTProx ISO Card

Features

- ACT ISO proximity card
- suitable for printing
- max range of up to 8cm
- supplied in pack of 10

Product Code ACTProx ISO-B

ACTProx HS Card

Features

- ACT half shell proximity card
- not suitable for printing
- max range of up to 8cm
- extremely durable
- supplied in pack of 10

Product Code ACTProx HS-B

ACTProx Duo

Features

- ACT Duo proximity card (prox & mag stripe)
- suitable for printing
- max range of up to 8cm
- supplied in pack of 10

Product Code ACTProx Duo-B

Cards & Fobs Accessories

Lanyard

Features

- use with ACT cardholder to secure card around the neck
- quick safety release clip

Product Code ACT Lanyard

Clips

Features

- use with the ACT cardholder to secure card to clothing

Product Code ACT Clip

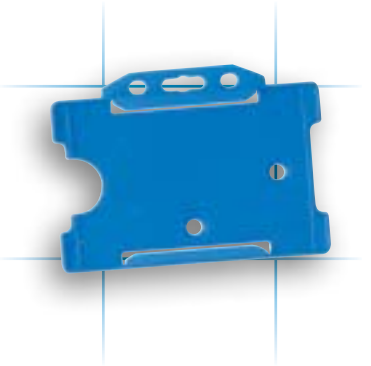
ACT stand alone

Cardholder

Features

- plastic holder for cards
- attach to lanyard or clip

Product Code ACT Cardholder



Yo Yo

Features

- Elasticated holder for cards and fobs

Product Code ACT YO-YO

Card Printing Bureau Services

Card ID

Features

- personalised printing e.g. employee name, photo, department, etc

Product Code ACT ID

Card Logo

Features

- non-personalised printing e.g. company logo, address, phone, etc.

Product Code ACT Logo

Encoding

Features

- to add non standard encoding to a card

Product Code Encoding

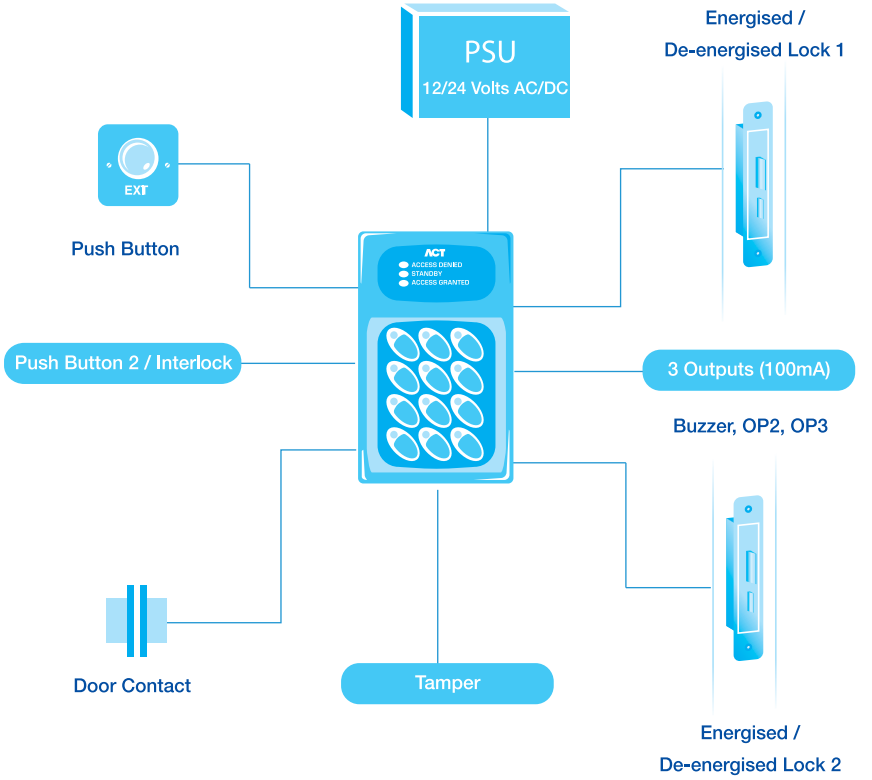
ACT stand alone

Product Specification

	ACT 10 (Pin only)	ACT 5 (Pin only)	ACT 5prox (Pin & Prox)
Operating Voltage	12 - 24 Volts AC / DC	12 - 24 Volts AC / DC	12 - 24 Volts AC / DC
Current Consumption	40 / 120 mA	30 / 120 mA	60 / 100 mA
Output Current Sink	100 mA	n/a	n/a
Operating Temperature	- 10 to + 50 ° C	- 10 to + 50 ° C	- 10 to + 50 ° C
Door Open Time	0 - 255 seconds	0 - 255 seconds	0 - 255 seconds
Relay Contact Rating	2 x 5A / 30 Volt	5A / 30 Volt	5A / 30 Volt
Weight	633 gms	150 gms	166 gms
Dimensions (H x W x D, mm)	138 x 87 x 37	100 x 110 x 35	100 x 110 x 35
Mounting	surface / flush options	surface / flush	surface / flush
Installation	indoor / outdoor (IP54)	indoor / outdoor (IP67)	indoor / outdoor (IP67)
Construction	zinc diecast housing, stainless steel keys	rugged polycarbonate housing, stainless steel keys, potted electronics	

Product Schematics

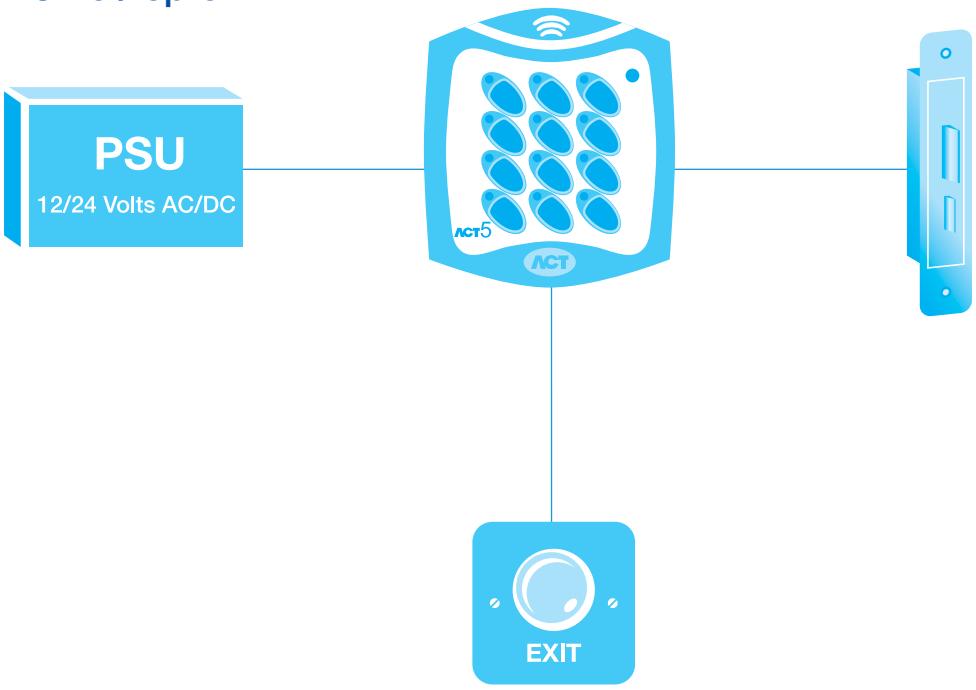
ACT 10 Digital Keypad



For built in electronic inputs / outputs use a DC supply for full functionality

Product Schematics cont'd

ACT 5 / 5prox



ACT stand alone

Installation Notes

ACT 5 / ACT 5prox

- The ACT 5 / 5prox require operating voltage of 12 - 24 volts AC or DC
- 5 amp lock output
- Indoor / outdoor installation (IP67)
- Operating Temperature: -10 to +50 C
- The ACT 5 / 5prox can be surface or flush mounted

ACT 10

- The ACT10 requires an operating voltage of 12 - 24 volts AC or DC
- 2 x 5amp relay outputs
- Indoor / outdoor installation (IP54)
- Operating Temperature: -10 to +50 C
- For full functionality use a 12 Volt DC power source

Product Comparisons

Please use these cross refernce charts to help you choose the device which most suits your needs.

ACT stand alone

	ACT 10 (Pin only)	ACT 5 (Pin only)	ACT 5prox (Pin & Prox)
Doors	2	1	1
Users	10	10	50
User Groups	1		
Pin Only	✓	✓	✓
Pin & Card			✓
Pin or Card			✓
Card Only			✓
Keypad Backlighting	✓	✓	✓
Push to exit	✓	✓	✓
Door Monitoring	✓		
Fire Alarm Override	✓		
Interlock	✓		
Toggle Mode	✓	✓	✓
Door Relay Output	5 amp	5 amp	5 amp
Programmable Inputs	2		
Programmable Outputs	2		
Push to release button input	✓	✓	✓
Tamper Output	✓		
12 - 24 Volt DC or AC input	✓	✓	✓
IP Rating	IP54	IP67	IP67
Door Forced / Door Ajar	✓		
Change Relay Timer	✓	✓	✓
Duress Code	✓		

Reader / Controller (125 kHz)
ACTsmart2 1070 Proximity

Features

- proximity reader / controller
- 1,000 users
- standalone / master slave / networkable
- programmable inputs/outputs: push to exit, door monitoring / door contact, door alarm (ajar / forced), fire alarm override, interlock
- tamper output
- 5 amp, 30 Volt DC relay
- smartlock option for added security (see p 11)
- robust polycarbonate housing
- indoor / outdoor (IP67)
- surface / flush mount options
- mounts on standard single gang electrical back box
- can be programmed using
  1. a programming card (standalone, see p 12)
  2. the master keypad (master slave, see p 17)
  3. ACTWin smart software (network, see p 18)

For a full list of ACT cards and fobs see p 12

Product Code ACTsmart2 1070
(includes reader / controller, flush mount plate, surface mount collar, 1 varistor & manual)

ACTsmart2 1080 Pin & Proximity

Features

- pin & proximity reader / controller
- 1,000 users (500 if pin & prox)
- standalone / master slave / networkable
- programmable inputs/outputs: push to exit, door monitoring / door contact, door alarm (ajar / forced), fire alarm override, interlock
- tamper output
- 5 amp, 30 Volt DC relay
- smartlock option for added security (see p 11)
- robust polycarbonate housing, stainless steel keys
- keypad backlighting
- indoor / outdoor (IP67)
- surface / flush mount options
- mounts on standard single gang electrical back box
- can be programmed using
  1. a programming card (standalone, see p 12)
  2. the master keypad (master slave, see p 17)
  3. ACTWin smart software (network, see p 18)

Product Code ACTsmart2 1080
(includes reader / controller, flush mount plate, surface mount collar, 1 varistor & manual)

ACTsmart

Readers / Controller

ACTsmart2 1090 PIN

Features

- pin reader / controller
- 1,000 users
- standalone / master slave / networkable
- programmable inputs/outputs: push to exit, door monitoring / door contact, door alarm (ajar / forced), fire alarm override, interlock
- tamper output
- 5 amp, 30 Volt DC relay
- smartlock option for added security (see p 11)
- polycarbonate housing, stainless steel keys
- keypad backlighting
- indoor/outdoor (IP67)
- surface / flush mount options
- mounts on standard single gang electrical back box
- can be programmed using
  1. a programming card (standalone, see p 12)
  2. the master keypad (master slave, see p 17)
  3. ACTWin smart software (network, see p 18)

Related Products

HIDsmart reader / controllers are also available.

Ask Sales for further information.

Product Code ACTsmart2 1090

(includes keypad, flush mount plate, surface mount collar, 1 varistor & manual)

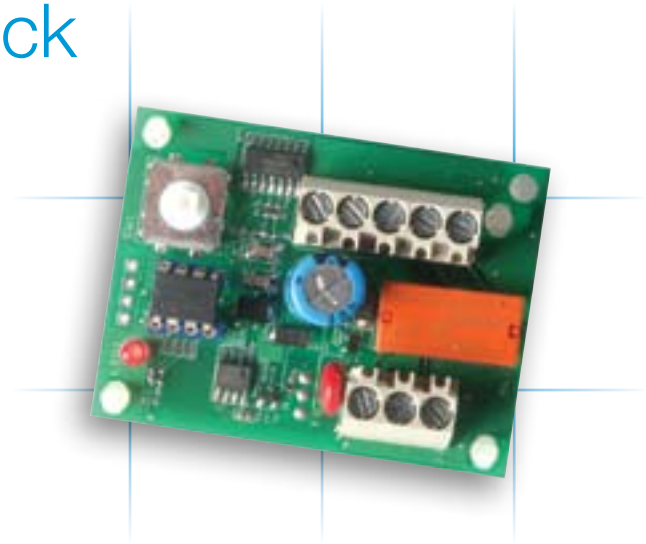
Reader / Controller Accessories

ACTsmart2 Lock

Features

- enhances security of ACTsmart2 installations by locating the relay inside the building (typically in PSU)
- relay only operated when a valid card / pin is presented to ACTsmart2 reader
- Led status indicator
- for more details see p 19

Product Code ACT smart2 Lock

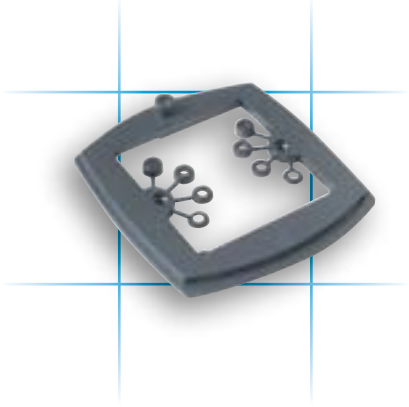


Flush Mount Plate

Features

- flush mount plate for ACTsmart2 readers
- fits standard single gang electrical back box

Product Code included with device

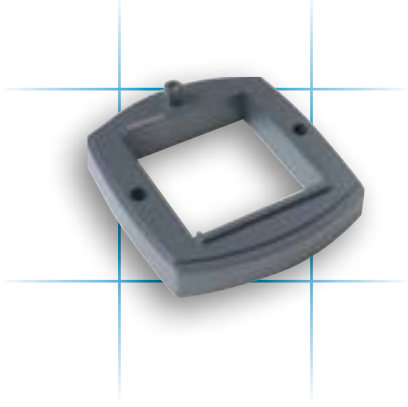


Surface Mount Collar

Features

- surface mount collar for ACTsmart2 readers
- fits standard single gang electrical back box

Product Code included with device



ACTsmart

Reader / Controller Cards & Fobs
(125 kHz)

ACTProx Fob

Features

- ACT proximity key fob
- max range of up to 8cm
- extremely robust
- supplied in pack of 10

Product Code ACTProx Fob-B

ACTProx ISO Card

Features

- ACT ISO proximity card
- suitable for printing
- max range of up to 8cm
- supplied in pack of 10

Product Code ACTProx ISO-B

ACTProx HS Card

Features

- ACT half shell proximity card
- not suitable for printing
- max range of up to 8cm
- extremely durable
- supplied in pack of 10

Product Code ACTProx HS-B

ACTProx Duo

Features

- ACT Duo proximity card (proximity & mag stripe)
- suitable for printing
- max range of up to 8cm
- supplied in pack of 10

Product Code ACTProx Duo-B

Radio Receiver

ACT 433RX Long Range Receiver

Features

- integrates with ACTsmart2 and ACTpro-X readers
- integrates with 3rd party systems
- range of up to 50 m (site dependant)
- 2 channel receiver
- supports “Clock & Data” and “37 bit Wiegand” output
- 5 - 12 Volt DC
- polycarbonate housing
- indoor / outdoor (IP67)
- surface / flush mount options
- mounts on standard single gang electrical back box

Product Code ACT 433RX

(includes long range receiver, flush mount plate, surface mount collar & manual)

ACTsmart

Radio Transmitters

ACT 433TX

Features

- high security rolling code transmission
- range of up to 50m (site dependant)
- 2 button battery powered radio devices
- battery used: two CR2032

Product Code ACT 433TX

ACT 433TXprox

Features

- all the functions of the ACT 433TX
- built in ACT proximity fob for use with ACTsmart2 & ACTpro-X readers

Product Code ACT 433TXprox

ACT RFID

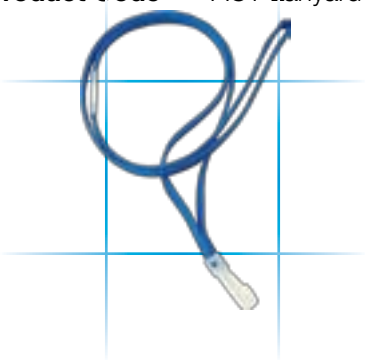
Cards & Fobs Accessories

Lanyard

Features

- use with ACT cardholder to secure card around the neck
- quick safety release clip

Product Code ACT Lanyard



Clips

Features

- use with the ACT cardholder to secure card to clothing

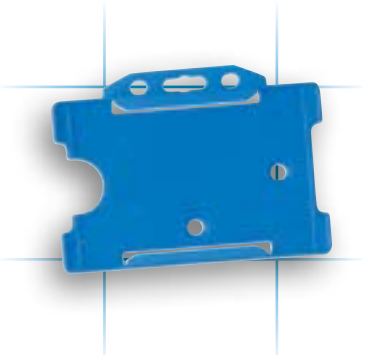
Product Code ACT Clip

Cardholder

Features

- plastic holder for cards
- attach to lanyard or clip

Product Code ACT Cardholder



Yo Yo

Features

- Elasticated holder for cards and fobs

Product Code ACT YO-YO

Card Printing Bureau Services

Card ID

Features

- personalised printing e.g. employee name, photo, department, etc

Product Code ACT ID

Card Logo

Features

- non-personalised printing e.g. company logo, address, phone, etc.

Product Code ACT Logo

Encoding

Features

- to add non standard encoding to a card

Product Code Encoding

Network Controller

ACTsmart2 Network Controller

Features

- required for ACTsmart2 software
- can control up to 8 ACTsmart2 devices
- 1000 users
- 16 User groups
- 1000 log events
- 12 Volt DC
- polycarbonate housing
- LED indicators
- indoor only

Product Code ACTsmart2 Controller

(includes network controller, software. serial lead & manual)

Software

ACTsmart2 Software

Features

- windows software for configuring & monitoring up to 8 ACTsmart2 devices to work in conjunction with ACTsmart2 network controller
- 16 user groups
- up to 4 time zones per user group to a max of 16
- 100,000 event log
- access control reports
- password protection
- upload facility
- photo ID for each user
- built-in translator
- software and serial lead supplied with ACTsmart2 network controller
- Windows XP & Vista compatible

Product Code ACTsmart2 Software

Only operates with ACTsmart2 systems

Minimum PC Specification for ACTsmart2 Software

- Windows 2000, XP, 2003, Vista
- Pentium II (300Mhz or better)
- RAM: 512Mb or better
- CD-ROM Drive
- 1 serial port

Product Specificatons

ACTsmart2 1070 / 1080 / 1090 Reader / Controller

Operating Voltage	12 - 24 Volt AC or DC
Current Consumption	60 / 100 mA
Output Current Sink	100 mA
Operating Temperature	-25 to +60ºC
Door Open Time	0 – 255 seconds
Programmable Inputs	1
Programmable Inputs/Outputs	2
Relay Contact Rating	5 amp / 30 Volts
Size (H x W x D, mm)	100 x 110 x 35
Weight	173 grams
Mounting	surface / flush mount options
Installation	indoor / outdoor (IP67)
Construction	rugged polycarbonate housing, stainless steel keys, potted electronics in the 1080 / 1090
ACTsmart2 per network (max)	8
Length of Network (max)	1.4 km

ACT 433RX Receiver

Operating Frequency	433.92 MHz
Modulation	FSK
Supply Voltage	5 Volts or 12 Volts
Current Consumption	60mA
Range in free space (max)	up to 50 metres
Operating Temperature	-20 to +70°C
Dimensions (HxWxDmm)	109 x 100 x 24
Weight	106 gms

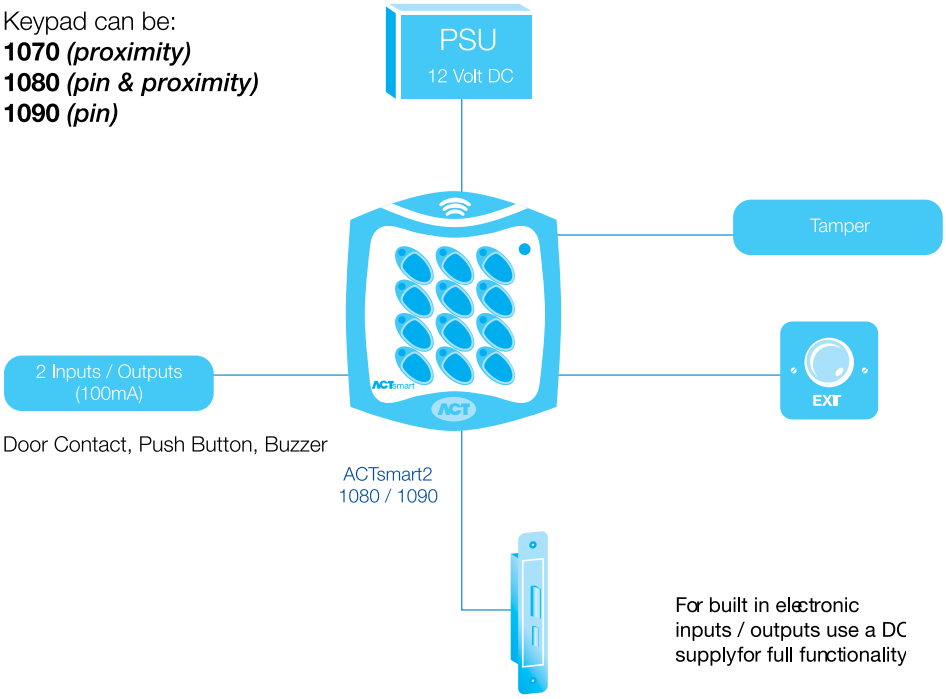
ACT 433TX & TXprox Transmitters

Operating Frequency	433.92 MHz
Modulation	FSK
Supply Voltage	6 Volts
Current Consumption	4mA
Range in free space (max)	up to 50 metres
Operating Temperature	-20 to +70°C
Dimensions (H x W x D, mm)	71.5 x 42.5 x 16
Weight	20 grams
E.R.P	5uW
Batteries	Two CR2032
Battery Life	up t o 2 years
Transmission period	2.3 seconds
Transmission duration	7 m seconds

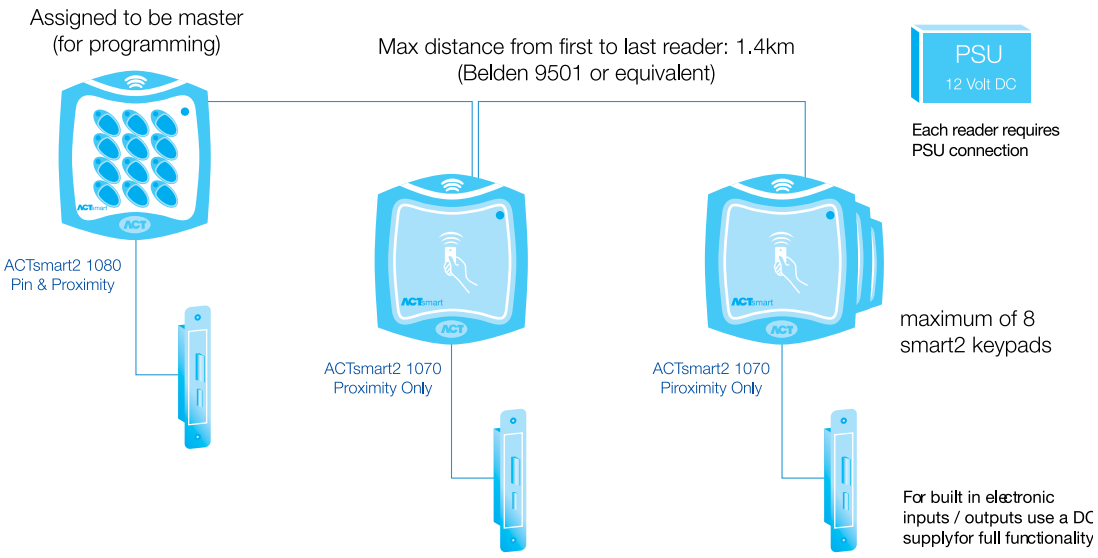
Product Schematics

ACTsmart2 Standalone Reader / Controller

Keypad can be:
1070 ***(proximity)***
1080 ***(pin & proximity)***
1090 ***(pin)***



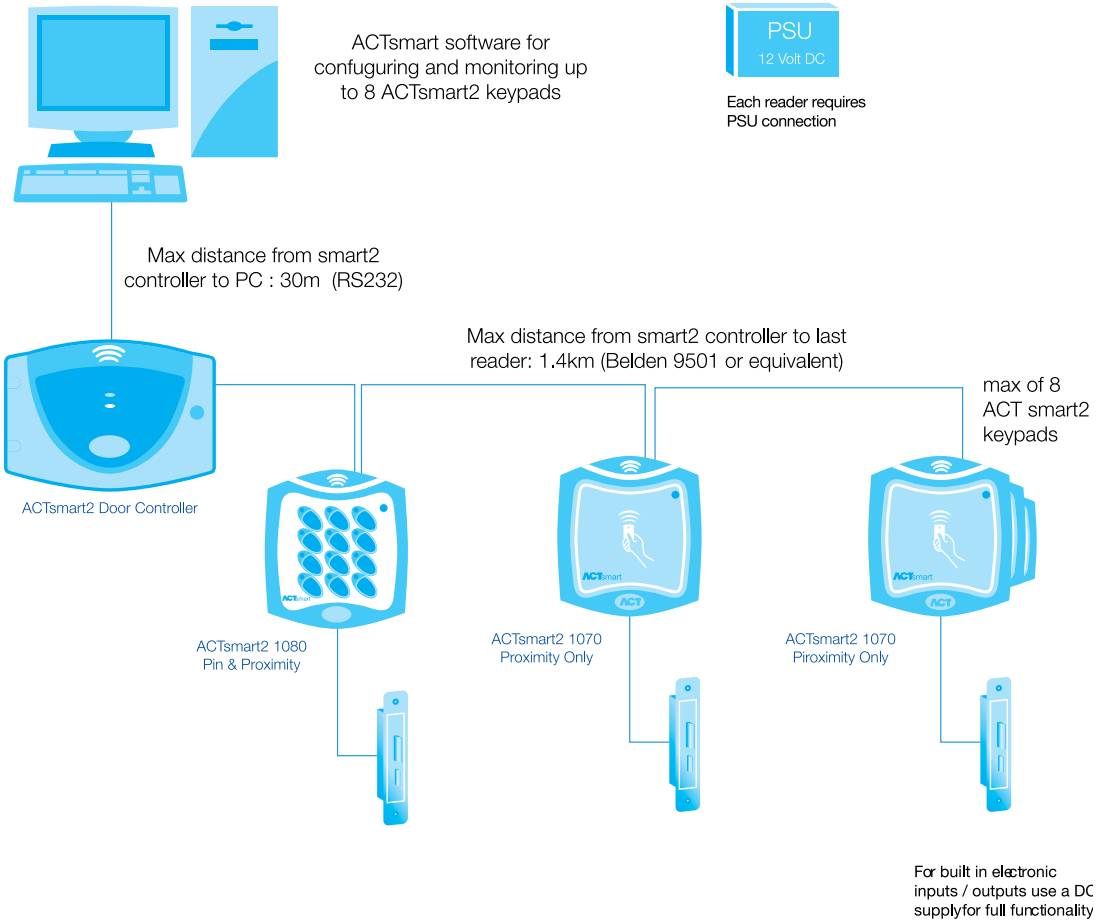
ACTsmart2 1080 Master Slave Configuration



From	To	Network Type	Cable Type*	Comments
Master ACTsmart keypad/controller	ACTsmart keypad/ controller	RS485	Screen twisted pair (STP) equivalent to Belden 9501 or shielded Cat 5.	Maximum distance 1.4 km

* Note: If using UTP (Unshielded Twisted Pair) such as Cat 5 please ensure that the cable is not located near sources of electrical noise.

ACTsmart2 Network Configuration

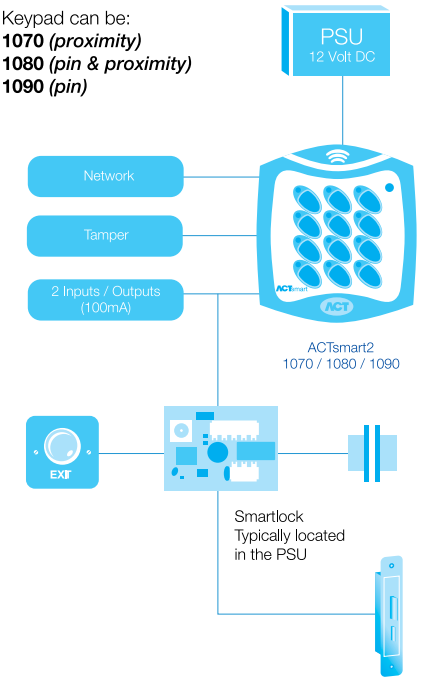


From	To	Network Type	Cable Type*	Comments
PC	ACTsmart controller	RS232	Screen twisted pair (STP)	Max distance 20m approx
ACTsmart controller	ACTsmart keypad/ controller(s)	RS485	Screen twisted pair (STP) equivalent to Belden 9501 or shielded Cat5.	Max distance 1.4 km

* Note: If using UTP (Unshielded Twisted Pair) such as Cat 5 please ensure that the cable is not located near sources of electrical noise.

ACTsmart2 Keypad / Controller with Smartlock

Keypad can be:
1070 ***(proximity)***
1080 ***(pin & proximity)***
1090 ***(pin)***



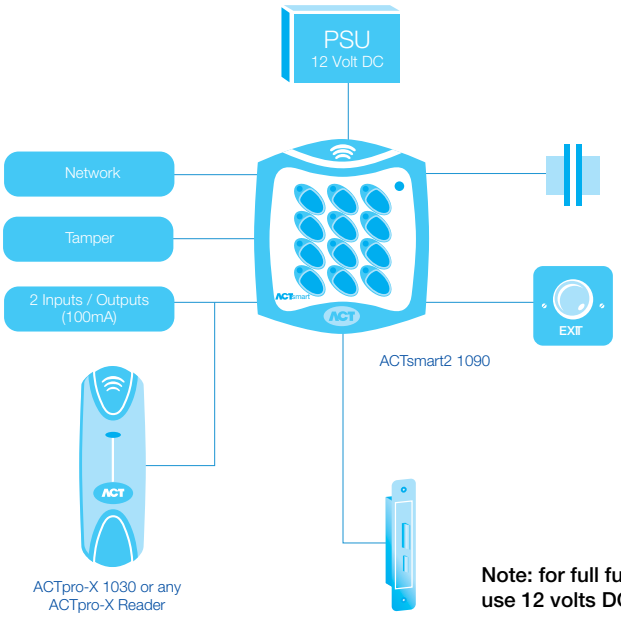
The use of the ACT Smartlock with the ACTsmart2 reader / controller will enhance the physical security by placing the lock relay in a more secure location, such as within a PSU that has tamper outputs.

The ACTsmart2 keypad / controller is installed on the unsecure side of the entry point and the Smartlock is installed on the secured side.

Note: for full functionality use 12 volts DC only

From	To	Network Type	Cable Type	Comments
ACTsmart keypad/ controller	ACT smart Lock	ACT protocol	Twisted Screen Pair	Max distance 30m

ACTsmart2 1090 with ACTpro-X 1030 Reader



The ACTsmart 2 1090 keypad / controller can operate in conjunction with any of the ACTpro-X family of readers to enhance physical security by protecting the lock relay from tampering. The ACTsmart2 1090 keypad / controller is installed on the secure side of the entry point and the ACTpro-X reader is installed on the unsecured side.

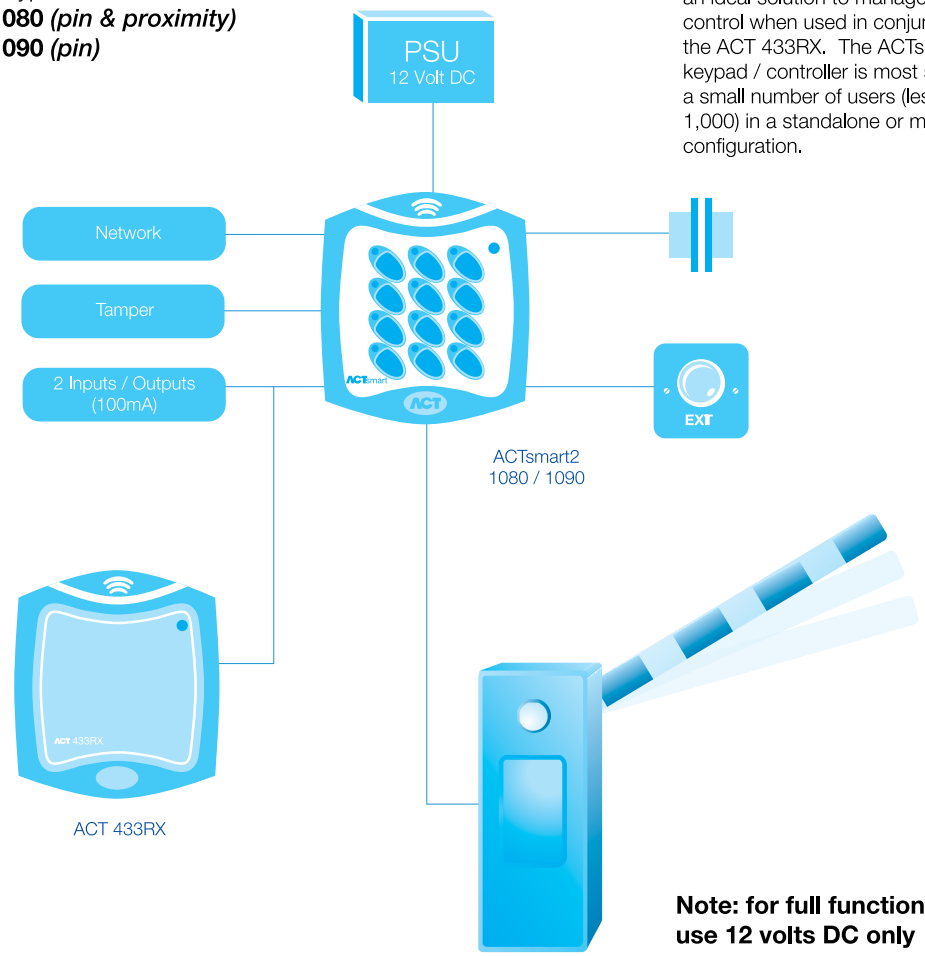
Note: for full functionality use 12 volts DC only

From	To	Network Type	Cable Type	Comments
ACTsmart controller	ACTpro-X reader	ACT protocol	8 core Screen	Max distance 100m

ACTsmart2 with ACT 433RX Long Range Reader

Keypad can be:
1080 ***(pin & proximity)***
1090 ***(pin)***

The ACTsmart 2 keypad / controller is an ideal solution to manage barrier control when used in conjunction with the ACT 433RX. The ACTsmart2 keypad / controller is most suitable for a small number of users (less that 1,000) in a standalone or master slave configuration.



Note: for full functionality use 12 volts DC only

Operating distance: 50 m
Using the transmitter as a long range unit

Installation Notes

Readers

ACTsmart2 1070 (RFID Prox only)
ACTsmart2 1080 (Pin and RFID prox)
ACTsmart2 1090 (PIN only)

- May be installed in exposed outdoor conditions (IP67)
- If the electronic outputs and inputs are to be used, or the master slave feature is required, ensure a DC supply to all units
- As there are up to 1,000 users available on the ACTsmart2 devices, the system administrator should keep good records to enable efficient addition and deletion of users
- When using the master slave option ensure that there is at least one ACTsmart2 1080 device when proximity is being used.

Controller

ACTsmart2 Controller

- The ACTsmart2 controller is used when connecting the the ACTsmart readers/ controller to a PC running the ACTSmart software.
- The ACTsmart2 controller will support a maximum of 8 access points.
- The maximum network cabling distance from the ACTsmart controller to the last ACTsmart readers/controller is 1.4 km of twisted screen pair or category 5
- The ACTsmart2 controller can only be connect to the PC via a serial (RS232) cable.

Smart Lock

ACTsmart2 Lock

- Maximum distance of Data Line from ACTSmart2 Lock to ACTSmart2 device: 30 metres
- ACT recommends installing the ACTSmart2 Lock inside the power supply unit.

Product Comparisons

Please use these cross refernce charts to help you choose the device which most suits your needs.

	ACTsmart2 1070 (Prox only)	ACTsmart2 1080 (Pin & Prox)	ACTsmart2 1090 (Pin only)
Doors	1	1	1
Users	1000	1000 (500 Pin & Card)	1000
User Groups*	1	1	1
Pin Only		✓	✓
Pin & Card		✓	
Pin or Card		✓	
Card Only	✓	✓	
Keypad Backlighting		✓	✓
Interlock	✓	✓	✓
Door Monitoring**	✓	✓	✓
Fire Alarm Override	✓	✓	✓
Toggle Mode	✓	✓	✓
Door Relay Output	5 amp	5 amp	5 amp
Programmable Inputs	1	1	1
Programmable Inputs/ Outputs	2	2	2
Push to release input**	✓	✓	✓
Tamper Output	✓	✓	✓
12 - 24 Volt DC or AC**	✓	✓	✓
IP Rating	IP67	IP67	IP67
Door Forced / Door Ajar	✓	✓	✓
Smartlock	✓	✓	✓
Standalone Operation	✓	✓	✓
Master Slave Operation	✓	✓	✓
PC Aplication	ACTWin Smart	ACTWin Smart	ACTWin Smart
Change Relay Timer	✓	✓	✓
Duress Code		✓	✓

* ACTsmart2 software can have up to 16 User groups, with each User group having 4 different Time zones (max of 16)

** For full functionality use 12 Volt DC

ACT recommend that the ACT smart 1070 not be used as a standalone reader for large systems incase the cards need to be reentered.

Proximity Readers (125 kHz)

ACTpro-x 1030

Features

- multi-format slimline proximity mullion reader
- ACTProx cards and fobs supported
- HID cards and fobs supported
- “Clock & Data” or “Wiegand” Output
- tri-colour LED indication
- built-in bleep tone for audible indications
- 2 meter pigtail lead
- robust polycarbonate housing
- potted electronics
- indoor / outdoor (IP67)

Product Code ACTpro-X 1030
(includes reader & manual)

Related Products

ACTpro-X 1030 Vandal Resistant Cover (p 27)

ACTpro-x 1030PM

Features

- multi-format panel mount proximity reader
- ACTProx cards and fobs supported
- HID cards and fobs supported
- “Clock & Data” or “Wiegand” Output
- tri-colour LED indication
- built-in bleep tone for audible indications
- robust polycarbonate front plate
- potted electronics
- indoor / outdoor (IP67)
- mounts on standard single gang electrical back box
- mounts into ACTentry V-IP and industry standard audio video panels

Product Code ACTpro-X 1030PM
(includes reader & manual)

Related Products

ACTpro-X 1030PM Flush Plate (p 27)

Proximity Readers (contd.) (125 kHz)

ACTpro-x 1040

Features

- multi-format proximity only reader
- ACTProx cards and fobs supported
- HID cards and fobs supported
- “Clock & Data” or “Wiegand” Output
- tri-colour LED indication
- built-in bleep tone for audible indications
- robust polycarbonate housing
- potted electronics
- indoor / outdoor (IP67)
- surface / flush
- mounts on standard single gang electrical back box

Product Code ACTpro-X 1040
(includes reader, flush mount plate, surface mount collar & manual)

ACTpro-x 1050

Features

- multi-format pin & proximity reader
- ACTProx cards and fobs supported
- HID cards and fobs supported
- “Clock & Data” or “Wiegand” Output
- tri-colour LED indication
- built-in bleep tone for audible indications
- robust polycarbonate housing
- keypad backlighting (on request)
- potted electronics
- indoor / outdoor (IP67)
- surface / flush
- mounts on standard single gang electrical back box

Product Code ACTpro-X 1050
(includes reader, flush mount plate, surface mount collar & manual)

Proximity Cards & Fobs (125 kHz)

ACTProx Fob

Features

- ACT proximity key fob
- max range of up to 8cm
- extremely robust
- supplied in pack of 10

Product Code ACTProx Fob-B

All ACT and HID cards & fobs are batch coded by default. ACT recommends using batch cards for simpler system enrollment.

ACTProx ISO Card

Features

- ACT ISO proximity card
- suitable for printing
- max range of up to 8cm
- supplied in pack of 10

Product Code ACTProx ISO-B

HID cards and fobs can be encoded with a unique site code. When ordering subsequent cards & fobs this site code is required. Site codes cards & fobs have a 2 week lead time.

ACTProx HS Card

Features

- ACT half shell proximity card
- not suitable for printing
- max range of up to 8cm
- supplied in pack of 10

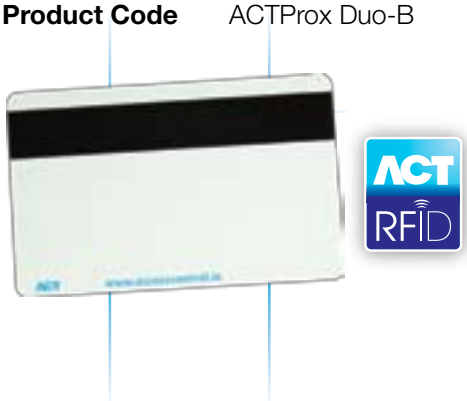
Product Code ACTProx HS-B

ACTProx Duo Card

Features

- ACT Duo Prox Card (prox & mag stripe)
- suitable for printing
- max range of up to 8cm
- supplied in pack of 10

Product Code ACTProx Duo-B



Proximity Cards & Fobs (125 kHz)

HIDProx Fob

Features

- HID RFID proximity key box
- max range of up to 6 cm
- supplied in pack of 10 (batch)

Product Code HIDProx Fob-B (batch)

HIDProx ISO Card

Features

- HID RFID ISO proximity card
- max range of up to 8 cm
- suitable for printing
- supplied in pack of 10 (batch)

Product Code HIDProx ISO-B (batch)

HIDProx HS Card

Features

- HID RFID Card 11 (half shell proximity card),
- max range of up to 8 cm
- not suitable for printing
- supplied in pack of 10 (batch)

Product Code HIDProx HS-B (batch)

HIDProx Duo Card

Features

- HID RFID proximity & mag stripe card
- max range of up to 8 cm
- suitable for printing
- supplied in pack of 10 (batch)

Product Code HIDProx Duo-B (batch)

Micro Prox Tag

Features

- HID RFID adhesive proximity tag
- max range of up to 8 cm
- not suitable for printing
- supplied in pack of 10 (batch)

Product Code HID Micro Prox

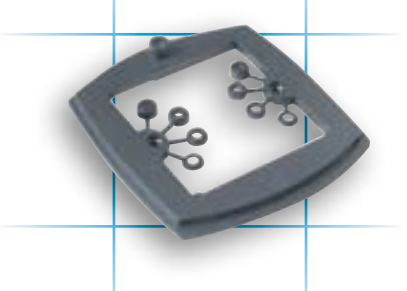
Proximity Reader Accessories

Flush Mount Plate

Features

- flush mount plate for ACTpro-X 1040 / 1050 / 1060
- fits standard single gang electrical back box

Product Code
included with device

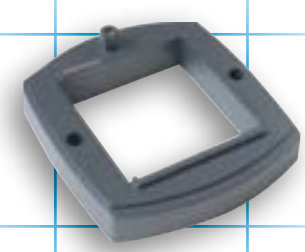


Surface Mount Collar

Features

- surface mount collar for ACTpro-X 1040 / 1050 / 1060
- fits standard single gang electrical back box

Product Code
included with device



ACTpro-X 1030PM Flush Plate

Features

- flush plate for the ACTpro-X 1030OM
- stainless steel / brass
- fits standard single gang electrical back box

Product Code ACTpro-X 1030PM Flush Plate

ACTpro-X 1030 Vandal Resistant Cover

Features

- vandal resistant cover for ACTpro-X 1030

Product Code ACTpro-X 1030VR

ACTpro-X USB Reader

Features

- enable cards / fobs on ACTpro-X systems at the PC (ACTWin pro 2.2 and later)
- read RFID proximity card (125 kHz)
- cradle slot design to accept RFID card

Product Code ACTpro-X USB Reader

ACTpro

PIN Only Reader
ACTpro-x 1060

Features

- Pin only reader
- Potted electronics
- “Clock & Data” or “Wiegand” output
- Tri colour LED indications
- bleep tone for audible indications
- robust polycarbonate housing
- indoor / outdoor (IP67)
- surface / flush
- mounts on standard single gang electrical back box

Product Code ACTpro-X 1060
(includes reader, flush mount plate, surface mount collar & manual)

ACTpro 20

Features

- pinpad for pin only use
- commonly used in conjunction with ACTpro 1010 for pin and swipe
- LED indications
- vandal resistant zinc diecast housing
- keypad backlighting
- indoor or outdoor (IP54)

Product Code ACTpro 20
(includes pin pad, 1 varistor & manual)

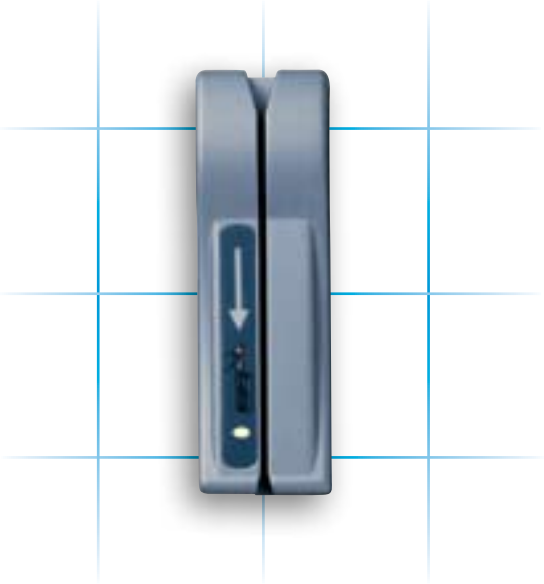
Magnetic Swipe Reader

ACTpro 1010

Features

- track 2 magnetic swipe reader
- “Clock & Data” output
- Bi colour LED indications
- 2 meter pigtail lead
- vandal resistant zinc diecast housing
- potted electronics
- indoor or outdoor (IP67)

Product Code ACTpro 1010
(includes reader & manual)



Magnetic Swipe Card

ACT Card

Features

- swipe card (magnetic strip)
- suitable for printing
- ACT logo as standard (blank on request)
- supplied in packs of 10

Product Code
ACT Card-B (Batch)

Contactless Smart Card Readers
(13.56 MHz)

ACTpro mifare 1040

Features

- proximity only mifare reader
- configurable as “Serial”, “Reverse Serial” or “Sector” reader
- default to read from sector 1
- 3rd party mifare cards & fobs supported
- tri-colour LED indication
- built-in bleep tone for audible indications
- robust polycarbonate housing
- indoor / outdoor (IP67)
- surface / flush mount options
- mounts on standard single gang electrical back box

Product Code ACTpro mifare 1040

(includes reader, flush mount plate, surface mount collar & manual)

ACTpro mifare 1050

Features

- pin & proximity mifare reader
- configurable as “Serial”, “Reverse Serial” or “Sector” reader
- default to read from sector 1
- 3rd party mifare cards & fobs supported
- tri-colour LED indication
- built-in bleep tone for audible indications
- robust polycarbonate housing
- indoor / outdoor (IP67)
- surface / flush mount options
- mounts on standard single gang electrical back box

Product Code ACTpro mifare 1050

(includes reader, flush mount plate, surface mount collar & manual)

ACTpro mifare USB Reader

Features

- enable cards / fobs and programme sectors on ACTpro mifare cards
- 13.56 MHz frequency
- fast data transfer
- high data integrity

Product Code ACTpro mifare USB Reader

Contactless Smart Card Readers
(contd.) (13.56 MHz)

HID iClass R10 Reader

Features

- proximity contactless smartcard reader
- “Clock & Data” or “Wiegand” output
- polycarbonate housing
- indoor / outdoor
- mullion mount
- 12 Volt DC

Product Code HID i class R10

HID iClass R40 Reader

Features

- proximity contactless smartcard reader
- “Clock & Data” or “Wiegand” output
- polycarbonate housing
- indoor / outdoor
- mounts on single gang back box
- 12 Volt DC

Product Code HID i class R40

HID iClass RP40 Reader

Features

- proximity contactless smartcard reader
- “Clock & Data” or “Wiegand” output
- polycarbonate housing
- indoor / outdoor
- mounts on single gang back box
- 12 Volt DC supply

Product Code HID I class RP40

Contactless Smart Card Cards & Fobs (13.56 MHz)

ACTpro mifare Fob

Features

- for use with ACTpro mifare 1040 / 1050
- proximity mifare IKB fob
- max range of 3cm
- not suitable for printing
- supplied in packs of 10

Product Code ACTpro mifare 1KB Fob

ACTpro mifare Card

Features

- for use with ACTpro mifare 1040 / 1050
- prox mifare 1KB card (prox & mag stripe)
- max range of 5cm
- suitable for printing
- supplied in packs of 10

Product Code ACTpro mifare 1KB Card

HID iClass cards

Features

- for use with HID iClass Readers
- suitable for printing
- max range of 5cm

Product Code HID i class 2k card
HID i class 16k card

HID mifare 1431

Features

- for use with HID iClass Readers
- prox mifare 1KB card (prox & mag stripe)
- suitable for printing
- max range of 5cm

Product Code HID mifare 1431

Radio Receiver

ACT433 RX Long Range Receiver

Features

- integrates with ACTpro-X and ACTsmart2 readers
- integrates with 3rd party systems
- range of up to 50m (site dependant)
- 2 channel receiver
- supports “Clock & Data” and “Wiegand” output
- 5 - 12 Volt DC
- polycarbonate housing
- indoor / outdoor (IP67)
- surface / flush mount options
- mounts on standard single gang electrical back box

Product Code ACT 433RX

(includes ACT 433RX receiver, flush mount plate, surface mount collar and product manual)

Radio Transmitters

ACT 433TX

Features

- high security rolling code transmission
- range of up to 50m (site dependant)
- 2 button battery powered radio devices
- battery used: two CR2032

Product Code ACT 433TX

ACT 433TXprox

Features

- all the functions of the ACT 433TX
- built in ACT proximity fob for use with ACTsmart2 & ACTpro-X readers

Product Code ACT 433TXprox

Biometric Reader

Bio V-Pass FX

Features

- Identification or Verification modes
- 500 fingerprint templates (identification mode) or 4000 fingerprint templates (verification mode when used with the ACTpro-X 1060
- software assists template management and reader configuration
- simple one touch enrolment
- user interface gives feedback via multi coloured LED and bleep tone signals

Product Code Bio V-Pass FX

Bio V-Prox

Features

- Identification & Verification (Biometric & integrated Proximity Reader)
- 4000 fingerprint templates
- Software assists template management and reader configuration
- Simple one touch enrolment
- User interface provides feedback via multi coloured LED and tone signals

Product Code Bio V-Prox

Handkey F

Features

- standalone / networked
- over 500 user templates
- integrated keypad
- card reader input
- fast enrolment & deletion of users
- tamper switch
- Integrated wall mount design

Product Code ING Palm Reader

Handkey Memory Expansion

(up to 9,728 users)

Features

- memory expansion from 512 (standard) to 9, 728

Product Code ING Memory Expansion (9,728)

Handkey Memory Expansion

(up to 32, 912 users)

Features

- memory expansion from 512(standard) to 32,912 users

Product Code ING Memory Expansion (32,912)

Cards & Fobs Accessories

Lanyard

Features

- use with ACT cardholder to secure card around the neck
- quick safety release clip

Product Code ACT Lanyard

Clips

Features

- use with the ACT cardholder to secure card to clothing

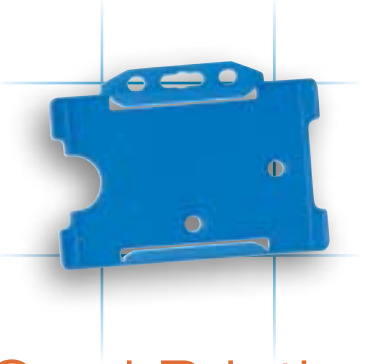
Product Code ACT Clip

Cardholder

Features

- plastic holder for cards
- attach to lanyard or clip

Product Code ACT Cardholder

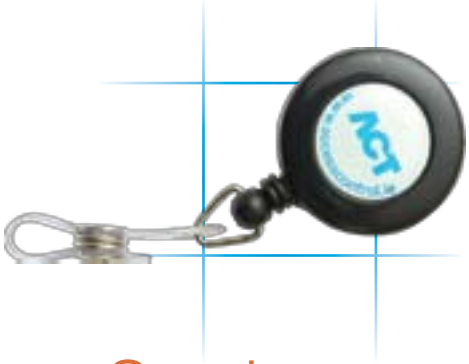


Yo Yo

Features

- Elasticated holder for cards and fobs

Product Code ACT YO-YO



Card Printing Bureau Services

Card ID

Features

- personalised printing e.g. employee name, photo, department, etc

Product Code ACT ID

Card Logo

Features

- non-personalised printing e.g. company logo, address, phone, etc.

Product Code ACT Logo

Encoding

Features

- to add non standard encoding to a card

Product Code Encoding

Door Controllers

ACTpro3000 (2 Door Controller)

Features

- 2 door controller expandable to 16 doors using ACTpro door stations
- 30,000 users
- 1,024 user groups
- networkable to 2000 doors
- PC connection using the built in TCP / IP or serial (RS232) port or RS485 (RS485 to serial converter required)
- serial port may be used to connect a printer
- “Clock & Data” and “Wiegand” format readers
- supports ACTpro-X & 3rd party readers
- memory card slot allows additional functionality: door plan, extra user rights, distributed intelligence
- requires 12 volt DC supply
- stores 5,000 log events
- monitored tamper of mains present
- programmable inputs & outputs
- each door has a 5amp, 30 volt DC lock relay and a 1amp, 24 volt DC alarm relay

Product Code ACTpro 3000

ACTpro 3000 Memory Card

Features

- expand memory of ACTpro 3000
- adds additional functionality to the ACTpro 3000: door plan, extra user rights, distributed intelligence

Product Code ACTpro 3000 MC

Door Controllers (contd.)

ACTpro2000 (2 Door Controller)

Features

- 2 door controller expandable to 16 doors using ACTpro door stations
- 20,000 users
- 1,024 user groups
- networkable to 2,000 doors
- PC connection using serial (RS232) port or RS485 (RS485 to serial converter required)
- serial port may be used to connect a printer
- “Clock & Data” and “Wiegand” format readers
- supports ACTpro-X & 3rd party readers
- requires 12 volt DC supply
- stores 5,000 log events
- monitored tamper of mains present
- programmable inputs & outputs
- each door has a 5amp, 30 volt DC lock relay and a 1amp, 24 volt DC alarm relay

Product Code ACTpro 2000

ACTpro1000 (Single Door Controller)

Features

- single door controller
- 10,000 users
- 16 user groups
- PC connection using serial (RS232) port or RS485 (RS485 to serial converter required)
- “Clock & Data” and “Wiegand” format readers
- supports ACTpro-X & 3rd party readers
- auxiliary door facility
- requires 12 volt DC supply
- monitored tamper of mains present
- programmable inputs & outputs
- 5amp, 30 volt DC lock relay

Product Code ACTpro 1000

Door Station

ACTpro 100 Single Door Station

Features

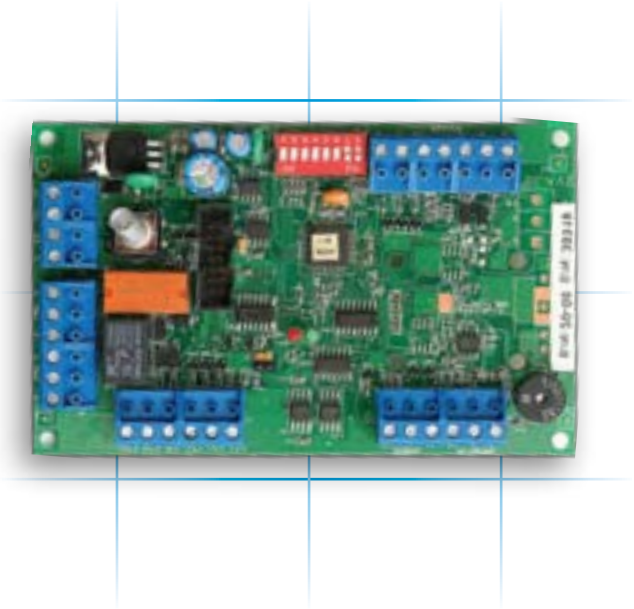
- single door station / expander
- max of 14 door stations to each ACTpro 2000/3000
- programmable inputs and outputs: push button, door contact, interlock
- auxiliary relay output for alarms: door forced, door ajar, duress, door open, access granted, access denied
- LED status notification
- requires 12 volt DC supply
- indoor only
- 5amp, 30 volt DC lock relay and a 1amp, 24 volt DC alarm relay

Product Code ACTpro 100

ACTpro101 Single Door Station

Features

- PCB only single door station / expander
- fits neatly into PSU box
- mounting holes compatible with ACTpro 200
- max 14 door stations to each ACTpro 2000/3000
- programmable inputs and outputs: push button, door contact, interlock
- auxiliary relay output for alarms: door forced, door ajar, duress, door open, access granted, access denied
- LED status notification
- requires 12 volt DC supply
- indoor only
- 5amp, 30 volt DC lock relay and a 1amp, 24 volt DC alarm relay



Product Code ACTpro 101

Door Station (contd.)

ACTpro200 Two Door Station

Features

- two door station / expander
- controls 2 doors
- built-in 3 amp monitored PSU
- battery deep-discharge protection
- fuse blown LED indication
- 18 swg mild steel cabinet
- mains fault indication
- supports 2 x 7AHr batteries
- accommodates 2 x ACTpro 100PCB's
- mounting points for ACTpro 100PCB on lid
- supports entry / exit readers
- 2 x 1.25 Amp Volts regulated power supply outputs
- alarms are monitored via ACTpro door controller & ACTWin software
- each door has a 5amp, 30 volt DC lock relay and a 1amp, 24 volt DC alarm relay

Product Code ACTpro 200

Modules

ACTpro IOM

Features

- 8 programmable input / output device
- max of 4 to each ACTpro 2000 / 3000 door controller
- 8 form C 5 Amp relays
- 8 supervised inputs
- tamper protection & 2 status LEDs
- output switched on/off by log, event, input, timezone
- ACTWin pro support
- use for elevator control. CCTV switches, alarm integration

Product Code ACTpro IOM

Software

ACTWin Lite

Features

- ACT Notifier: SMS / e-mail event alerts (from 2.6)
- ACTWeb browser based interface for managing users and reporting (from 2.5)
- unlimited log events
- connect to locations via TCP/IP, serial interface or modem
- report generation
- challenge
- card editor & printing (with barcode & magnetic stripe)
- supports MS Access or MS SQL formatted databases
- supports XP, Vista, 2003

Product Code ACTWin Lite

ACTWin Lite is available to download from our website

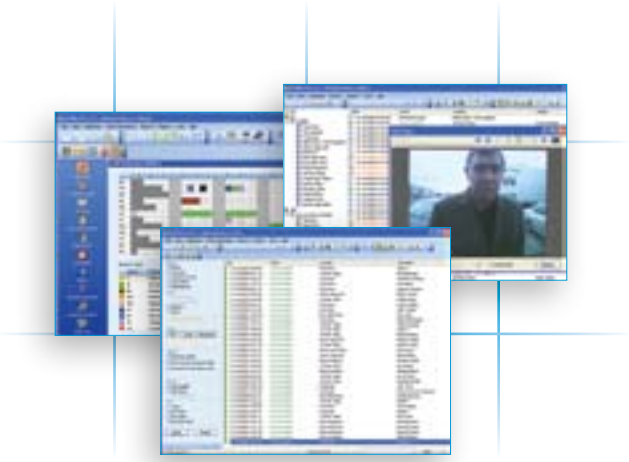
www.accesscontrol.ie

ACTWin pro

Features

- all functions of ACTWin Lite plus
- 2,000 doors
- supports 200 different locations
- multiple clients can connect to database
- audit trail
- DVR integration (from 2.4 and later)
- time & attendance (from 2.3 and later)

Product Code ACTWin pro



	ACTWin Lite	ACTWin pro		ACTWin Lite	ACTWin pro
Doors	64	2,000	Password Protection	✓	✓
User Groups	1,024	1,024	TCP / IP	✓	✓
Event Log	Infinite	Infinite	Modem Connection	✓	✓
Anti Passback Support	✓	✓	Multi Tenant Module		✓
Report: Roll Call	✓	✓	Card Editor	✓	✓
Report: Time & Attendance	✓	✓	T & A Module		✓
ACT Notifier	✓	✓	ACT Web	✓	✓
Local & Remote Sites	Limited	✓	Challenge	✓	✓
User Tracking	✓	✓	DVR Integration		✓
Audit Trail		✓	Photo-ID	✓	✓
PC Users	1	5*	Client Server		✓

* First 5 users require a license. Unlimited users after 5.

Software (contd.)

ACTWin pro Workstation

Features

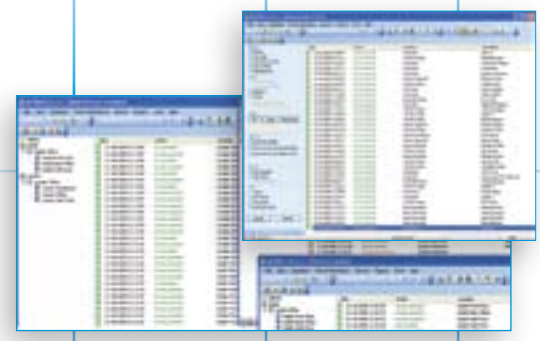
- additional operator work station

Product Code ACTWin pro W/S

ACTWin pro Multi Tenant

Features

- allows the system to be partitioned for simpler administration
- define up to 200 separate tenants
- log events that occur to other tenants are not displayed
- in the event of a fire occurring in one tenant the muster report is only generated for users of that tenant
- module for ACTWin pro 2.4 and later



Product Code ACTWin pro Multi Tenant

ACTWin pro Time & Attendance

Features

- audit trail, employee time and attendance calculations, absentees reports, holiday management
- report generation
- European Working Time Directive compliance
- Bradford Factor Calculation
- export information to payroll applications
- module for ACTWin pro 2.3 and later

Product Code ACTWin pro Time & Attendance

Network & Communication Devices

ACT Lan

Features

- TCP / IP unit to facilitate connection of ACTpro 1000 / 2000 controllers to Lan
- supplied with power pack, serial lead and PC interface leads

Product Code ACT Lan

ACT Single Channel Interface

Features

- Single channel RS232 to RS485 network interface
- RS232 to RS485 converter
- supplied with serial and PC interface cables
- requires 12 Volt DC supply

Product Code ACT Net IF-1

ACT 4 Channel Interface

Features

- 4 channel RS232 to RS485 network interface
- RS232 input with 4 x RS485 outputs
- dedicated 1 amp 12V PSU, complete with serial lead and housing

Product Code ACT Net IF-4

Product Specification

Door Controllers	ACTpro 1000	ACTpro 2000	ACTpro 3000
Operating Voltage	12 Volts DC	12 Volts DC	12 Volts DC
Current Consumption	40 / 150 mA	120 / 230 mA	120 / 230 mA
Output Current Sink	100 mA	100 mA	100 mA
Operating Temperature	-10 to + 50 ° C	-10 to + 50 ° C	-10 to + 50 ° C
Controller Weight	750 gms	700 gms	700 gms
Controller Size (H x W x D, mm)	138 x 87 x 37	270 x 190 x 60	270 x 190 x 60
Mounting	Surface / Flush	Surface	Surface
Installation	Indoor	Indoor	Indoor
Construction	zinc diecast housing with stainless steel keys	Robust polycarbonate housing with stainless steel keys	Robust polycarbonate housing with stainless steel keys

ACT 433RX Receiver

Operating Frequency	433.92 MHz
Modulation	FSK
Supply Voltage	5 Volts or 12 Volts
Current Consumption	60mA
Range in free space (max)	50 metres
Operating Temperature	-20 to +70°C
Dimensions (HxWxDmm)	109 x 100 x 24
Weight	106 gms

ACT 433TX & TXprox Transmitters

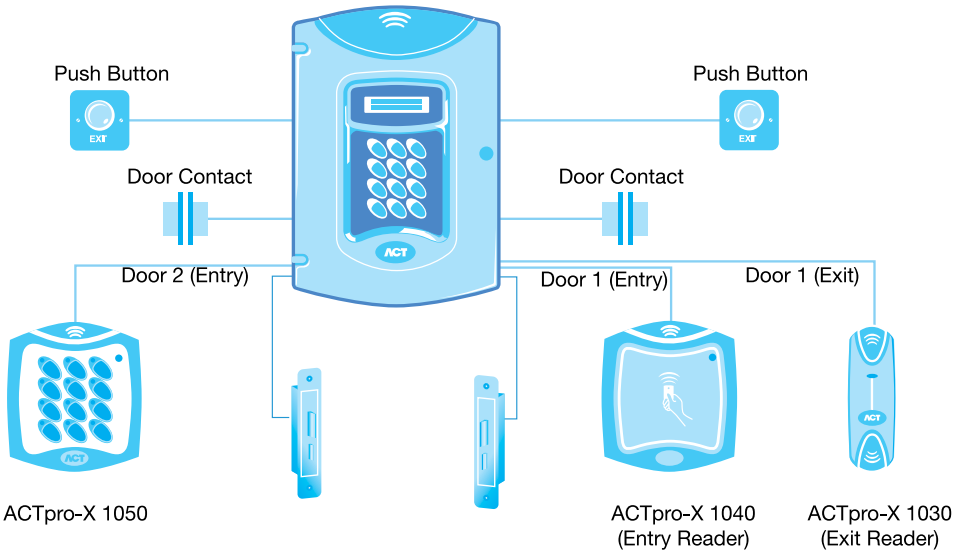
Operating Frequency	433.92 MHz
Modulation	FSK
Supply Voltage	6 Volts
Current Consumption	4mA
Range in free space (max)	50 metres
Operating Temperature	-20 to +70°C
Dimensions (H x W x D, mm)	71.5 x 42.5 x 16
Weight	20 gms
E.R.P	5uW
Batteries	Two CR2032
Battery Life	2 years (normal usage)
Transmission period	2.3 sec.
Transmission duration	7m sec.

Product Specification (contd.)

Door Stations	ACTpro 100	ACTpro 101	ACTpro 200
Operating Voltage	12 Volts DC	12 Volts DC	230 V AC +10% -15%
Current Consumption	40 / 120 mA	40 / 120 mA	100 mA
Output Current Sink	100 mA	100 mA	100 mA
Operating Temperature	-10 to + 50ºC	-10 to + 50ºC	-0 to + 50ºC
Controller Weight	414 gms	80 gms	4873.5 gms
Controller Size (HxWxD, mm)	110 x 190 x 60	80 x 130 x 25	355 x 370 x 85
Mounting	Surface	inside PSU	Surface
Installation	Indoor	Indoor	Indoor
Construction	Polycarbonate housing	PCB	Steel housing
Tamper	Yes	Yes	Yes
Door	1	1	2
Relay Per door	2	2	2
Input per door	3	3	3
Output per door	2	2	2
Readers (Prox & Pin)	Yes	Yes	Yes
Frequency			47 - 63 Hz
Mains Fuse			630 mA
Lock Fuse			1.25 A Quick Blow
Ripple Voltage			<200 mV
Battery			2 x 7 Ahr
Output Voltage			2 x 12V DC regulated to 1.25 amps
Monitored Alarms			Yes
Battery			2 x 7Ahr
Output Voltage			2 x 12 V DC Regulated to 1.25 amps
Monitored Alarms			Yes

Product Schematics

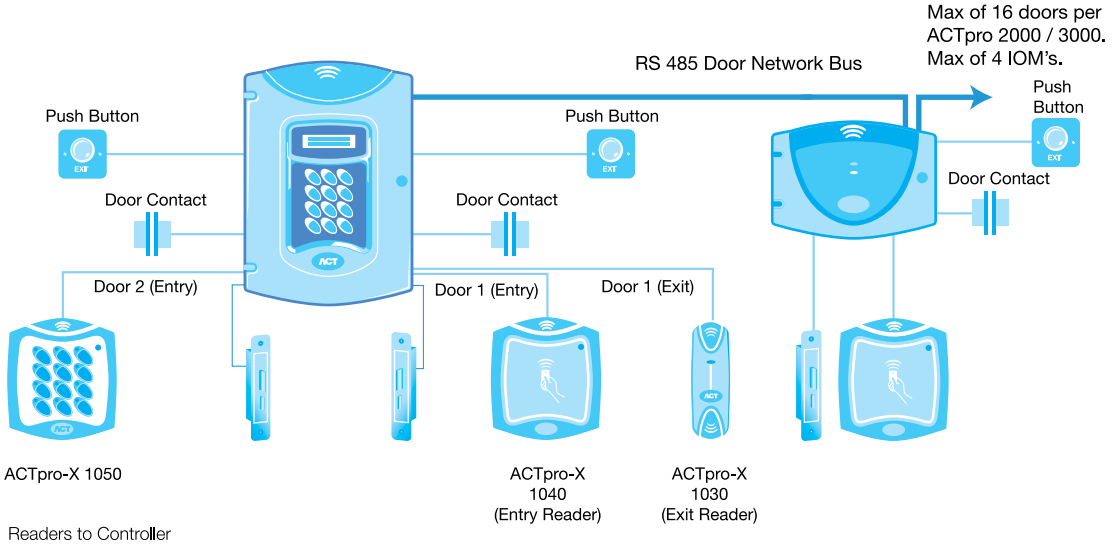
ACTpro 3000 Door Controller with 2 access points on board



Readers to Controller

Distance: from reader to controller up to 100 metres
Cable Type: 8 core screen
Power: 12 Volts DC (check manufacturers instructions)

ACTpro 3000 Door Controller with 2 access points on board, plus additional access point using the ACTpro 100 Door Station

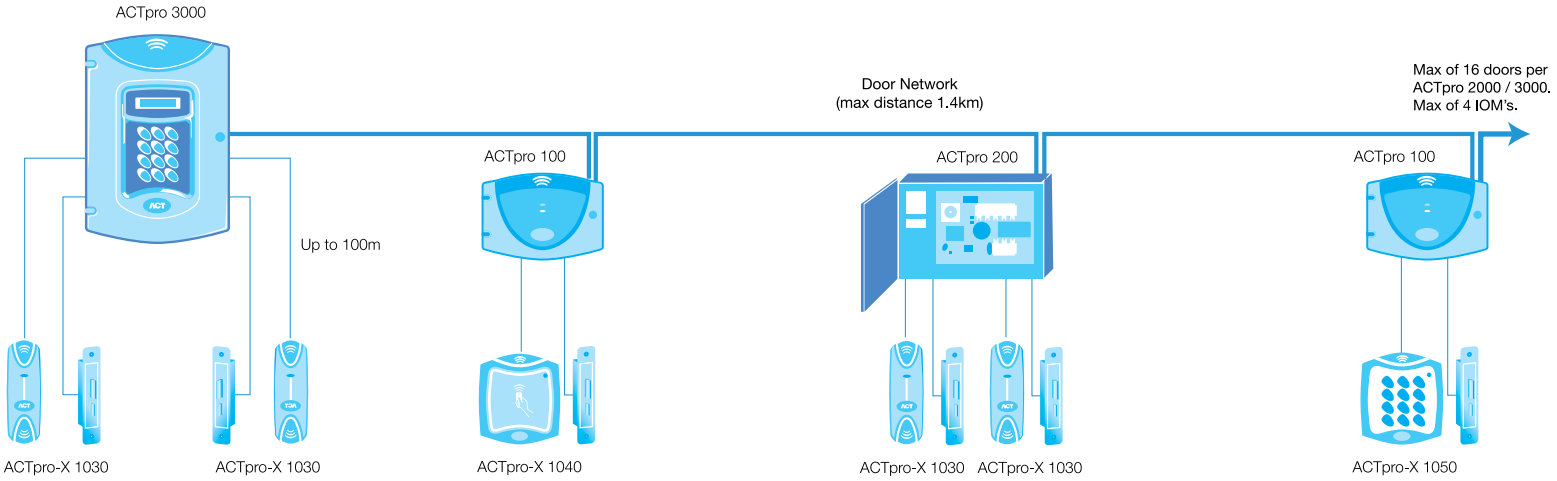


Readers to Controller

Distance: from reader to controller up to 100 metres
Cable Type: 8 core screen
Power: 12 Volts DC (check manufacturers instructions)

Door Network

ACTpro 3000 Door Controller expanded up to 16 doors with ACTpro 100 and 200 Door Stations



Readers to Controller

Distance: from reader to controller up to 100 metres
Cable Type: 8 core screen
Power: 12 Volts DC (check manufacturers instructions)

Door Network

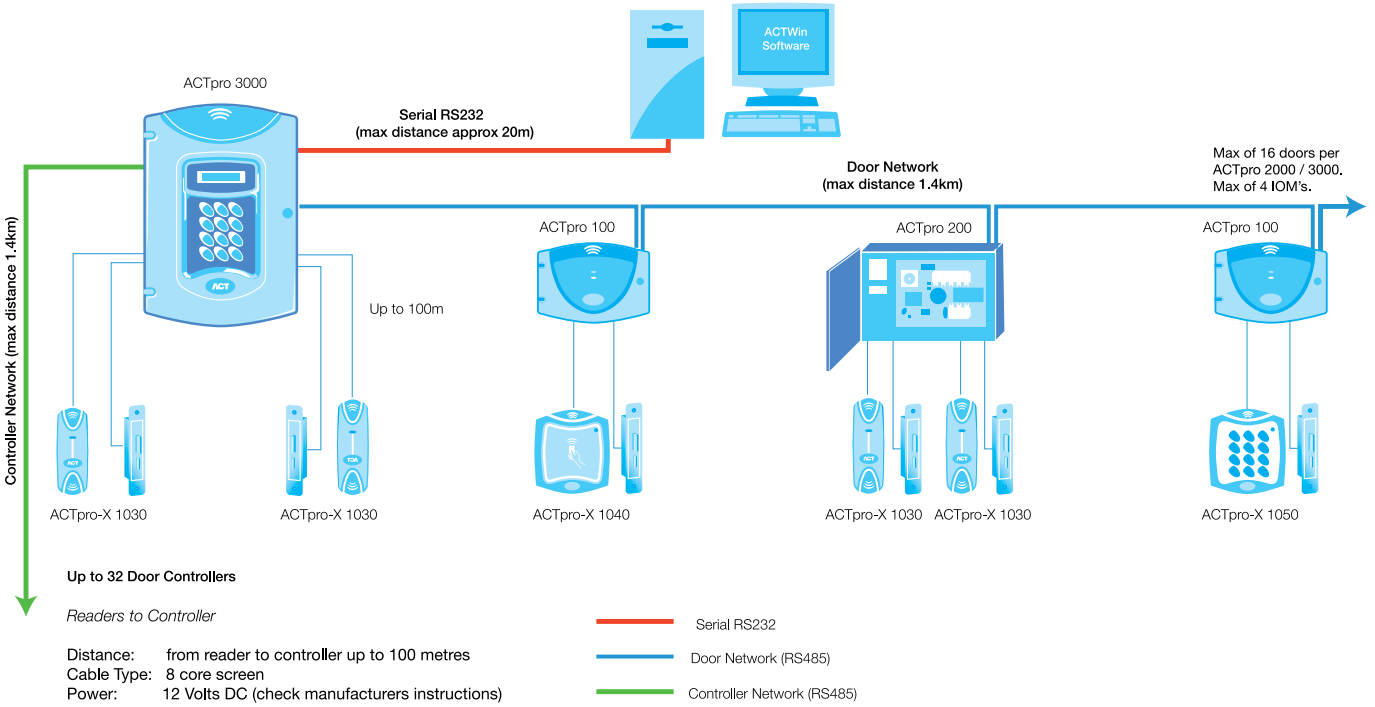
Cabling Chart

From	To	Network Type	Cable Type*	Comments
ACTpro Controller	ACTpro Door stations (ACTpro 100 / ACTpro 200)	RS485	Screen twisted pair(STP) equivalent to Belden 9501 or shielded Cat5.	Max distance 1.4 km 14 additional doors
ACTpro Controllers / Door Stations	ACTpro-X readers	ACT protocol	8 core Screen	Max distance 100m if powered from 12V source

* Note: If using UTP (Unshielded Twisted Pair) such as Cat 5 please ensure that the cable is not located near sources of electrical noise.

ACTpro

ACTpro 3000 Door Controller with up to 16 doors, connected via a serial port (RS232) to a PC running the ACTWin software



Cabling Chart

From	To	Network Type	Cable Type**	Comments
ACTpro Controller	ACTpro Door stations (ACTpro 100 / 200)	RS485	Screen twisted pair(STP) equivalent to Belden 9501 or shielded Cat5.	Max distance 1.4 km. 14 additional doors
ACTpro Controllers / Door Stations	ACTpro-X readers	ACT protocol	8 core Screen	Max distance 100m if powered from 12V source
Master ACTpro Controller (Hub mode)	ACTpro Controller	RS485	Screen twisted pair(STP) equivalent to Belden 9501 or shielded Cat5.	Maxi distance 1.4 km (31 additional controllers)
PC*	ACTpro Controller	TCP/IP	Cat5	Max distance of 100m. If using an ACTpro 2000 an ACT LAN is required
PC*	ACTpro Controller	RS232	Screen twisted pair (STP)	Max distance of 20m. If Hub mode is required with the ACTpro 2000 then connect via the network . Needs Single Channel Interface (ACT Net IF-1)
PC*	ACTpro Controller	RS232 to RS485	Screen twisted pair(STP) equivalent to Belden 9501 or shielded Cat5	Max distance 20m for RS232 and 1.4km for RS485. Needs Single Channel Interface (ACT Net IF-1)

*The ACTpro 3000 controllers can either be connected to the computer via TCP/IP or Serial

** Note: If using UTP (Unshielded Twisted Pair) such as Cat 5 please ensure that the cable is not located near sources of electrical noise.

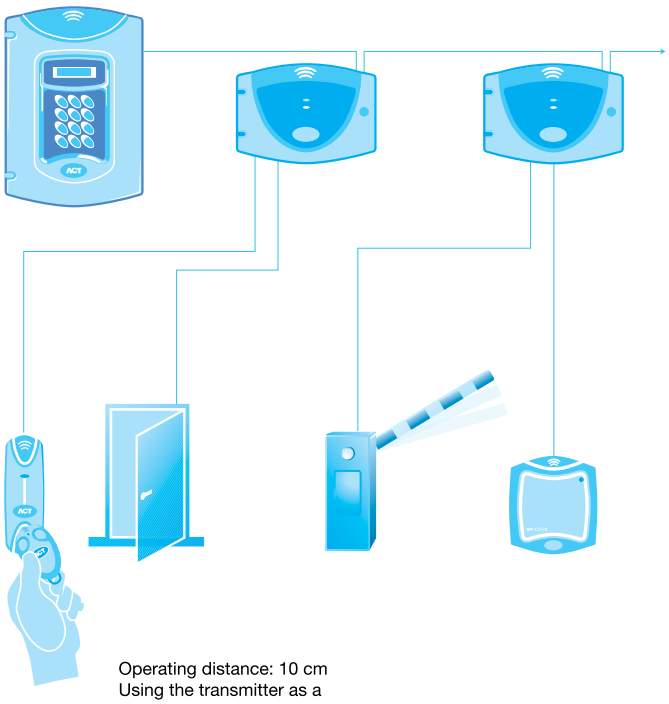
ACTpro 3000 Door Controller, each with a max of 16 doors, connected via Ethernet (TCP / IP) to a PC running the ACTWin software

Readers to Controller

Distance: from reader to controller up to 100 metres
Cable Type: 8 core screen
Power: 12 Volts DC (check manufacturers instructions)

ACT 433 Long Range Receiver & Transmitters with pro range of Door Controllers, Door Stations and Readers

ACTpro



Operating distance: 10 cm
Using the transmitter as a standard card / fob

Operating distance: 50 m
Using the transmitter as a long range unit

Installation Notes

Readers

ACTpro-X Readers

- May be installed in exposed outdoor conditions (IP67)
- May be up to 100m when powered from +12V DC
- May be a maximum of 30m from the controller when powered from +5V DC
- Use 8 core screened cable

Note: The +5 Volt reader supply on ACT controllers is normally rated at 100mA. Typically this is sufficient to power 2 ACTpro Readers.

Controllers

ACTpro 3000

- The ACTpro 3000 requires a 12 Volt DC supply
- The controller may not be installed outdoors unless it is in a sealed and heated cabinet
- The ACTpro 3000 is expanded from 2 to 16 access points via “single door ACTpro 100” or the “two Door ACTpro 200” Expanders
- The ACTpro 3000 is compatible with ACTWin Pro and ACTWin Lite software packages.
- The ACTpro 3000 controller will operate standalone or can be connected to a PC via the onboard
  - RJ45 TCP/IP port
  - Serial port (RS232)
  - RS485. (ACT supply an ACT IF1 which converts RS485 to RS232)
- The ACTpro 3000 Controller may be networked via an RS485 interface to expand the system up to a maximum of 32 controllers (512 doors).

ACTpro 2000

- The ACTpro 2000 requires a 12 Volt DC supply
- The controller may not be installed outdoors unless it is in a sealed and heated cabinet
- The ACTpro 2000 is expanded from 2 to 16 access points via “single door ACTpro 100” or the “two Door ACTpro 200” Expanders
- The ACTpro 2000 is compatible with ACTWin Pro and ACTWin Lite software packages.
- The ACTpro 2000 controller will operate standalone or can be connected to a PC via the onboard
  - Serial port (RS232)
  - RS485. (ACT supply an ACT IF1 which converts RS485 to RS232)
- The ACTpro 2000 Controller may be networked via an RS485 interface to expand the system up to a maximum of 32 controllers (512 doors).

Door Stations

ACTpro 200

- For indoor use only
- The ACTpro 200 connects to the ACT controller on the DOORS network
- The ACTpro 200 is compatible with all versions of ACTpro 2000 and ACTpro 3000 Controllers
- Up to 7 ACTpro 200s can be connected to a controller (total of 14 additional access points)
- ACTpro 200 and ACTpro 100 may be connected on the same network

ACTpro 100

- For indoor use only
- The ACTpro 100 connects to the ACT controller on the DOORS network
- The ACTpro 100 is compatible with all versions of ACTpro 2000 and ACTpro 3000 Controllers
- Up to 14 ACTpro 100s can be connected to a controller (total of 14 additional access points)
- ACTpro 100 and ACTpro 200 may be connected on the same network

Modules

ACTpro IOM

- For indoor use only
- The ACTpro IOM connects to the ACTpro 2000 and 3000 controller on the doors network
- The ACTpro IOM connects to the ACTpro 2000 and 3000 controller on the doors network
- Up to 4 ACTpro IOMs can be connected to the ACTpro 2000 / 3000 controller (including the 14 access points)
- Each ACTpro IOMs has 8 inputs and 8 outputs controller can support a maximum of 32 inputs and 32 outputs per 2000 / 3000 door controller.

Product Comparisons

Please use these product feature comparison charts to help you choose the device which most suits your needs.

Door Controllers

	ACTpro 1000	ACTpro 2000	ACTpro 3000
Doors	1	2*	2*
Users	10,000	20,000	30,000
User Groups	16	1,000	1,000
Event Log	500	5,000	5,000
Anti passback		✓***	✓
Entry&Exit Reader Support	✓	✓	✓
Timed Actions	✓	✓	✓
Interlock	✓	✓	✓
User Tracking		✓	✓
Visitor Cards	✓	✓	✓
Card only	✓	✓	✓
Pin & Card	✓	✓	✓
Pin or Card		✓	✓
Pin Only	✓	✓**	✓**
Door Monitoring	✓	✓	✓
Door Control	✓	✓	✓
Fire Alarm Override	✓	✓	✓
Toggle Mode	✓	✓	✓
Door Relay Output	5 amp	5 amp	5 amp
Auxiliary Relay Output		1 amp	1 amp
Programmable Inputs	2	2	2
Programmable Outputs	2 (100mA)	2 (100mA)	2 (100mA)
Tamper Output	✓	✓	✓
Network Doors	128 max	1,000 max	1,000 max
Modem Connection	✓	✓	✓
TCP/IP Option		✓	✓
Ethernet Network Interface			10Base-T (RJ45)
Weight	651g	687g	694g
Dimensions (H x W x D, mm)	138 x 87 x 37	270 x 190 x 60	270 x 190 x 60

* The ACTpro 2000/3000 Controllers may be expanded to 16 doors via ACTpro 100 / 200 Door Expanders

** The ACTpro 2000/3000 Controllers require an external pin pad for Pin Only Operation

*** Global anti passback (anti passback across multiple controllers) is mainly supported on the ACTpro 3000 connected via TCP / IP

Product Comparisons cont'd

ACTpro-X Reader

	ACTpro-X 1030	ACTpro-X 1030PM	ACTpro-X 1040	ACTpro-X 1050	ACTpro-X 1060
Description	slimline multi-format prox	multi-format prox	multi-format prox	multi-format pin & prox	pin only
Mounting	mullion	panel	surface / flush		
Proximity	✓	✓	✓	✓	
Pin				✓	✓
IP rating	IP67	IP67	IP67	IP67	IP67
ACT Cards and Fobs	✓	✓	✓	✓	n/a
HID Cards and Fobs	✓	✓	✓	✓	n/a
Selectable Clock & Data or 37-bit Wiegand Output	✓	✓	✓	✓	✓
Construction	Robust polycarbonate housing				
Potted electronics	✓	✓	✓	✓	✓
Tri-colour LED	✓	✓	✓	✓	✓
Built-in buzzer	✓	✓	✓	✓	✓
Mounts on to standard single gang electrical back box		✓	✓	✓	✓
Operating Voltage	5 to 12 Volts DC				
Current Consumption	40mA				
Operating Temperature	-10 to +50 Celsius				
Weight	140g	61g	154g	169g	161g
Dimensions (H x W x D, mm)	108 x 36 x 13	63 x 58 x 23	110 x 100 x 35	110 x 100 x 35	110 x 100 x 35

Product Comparisons cont'd

ACTpro mifare Reader

	ACTpro mifare 1040	ACTpro mifare 1050
Description	Contactless smartcard reader	Contactless smartcard & pin reader
Mounting	surface / flush	
Proximity	✓	✓
Pin		✓
IP rating	IP67	IP67
Selectable Clock & Data or 37-bit Wiegand Output	✓	✓
Mifare cards	✓	✓
Selectable Sector, Serial & Reverse Serial reader	✓	✓
Construction	Robust polycarbonate housing	
Potted electronics	✓	✓
Tri-colour LED	✓	✓
Built-in buzzer	✓	✓
Mounts on standard single gang electrical back box	✓	✓
Operating Voltage	12 Volts DC	
Current Consumption	70 mA	
Operating Temperature	-10 to +50 Celsius	
Weight	142g	155g
Dimensions (H x W x D, mm)	110 x 100 x 35	110 x 100 x 35

Audio Video over IP Door Entry

ACTentry V-IP Kit

Audio Video over IP Door Entry

Features

Each kit comprises of:
- ACTentry V-IP door entry panel
- ACTentry V-IP control unit
- ACTentry V-IP handset
- ACTentry V-IP software & manual
- ACTentry 1A PSU

Kits do not include locks

Optional components
ACTpro-X 1030PM proximity reader

Product Code

Surface Mount:	ACTentry V-IPVR-SK
Flush Mount:	ACTentry V-IPVR-FK

ACTentry V-IP Door Entry Panel

Features

- audio video door entry over TCP/IP
- grant / deny building access from PC
- connect to unlimited PC's
- software can manage up to 8 entrance points
- door relay, 5amp
- alarm relay, 1amp
- vandal resistant, stainless steel
- integrated day and night colour video camera
- integrated call button and speech unit
- option to integrate ACTpro-X 1030PM proximity reader (not included)
- push button gives audio alert
- supports static & dynamic IP addresses
- Vista & XP compatible

Product Code

Surface Mount:	ACTentry V-IPVR-S
Flush Mount:	ACTentry V-IPVR-F

(sold individually or included in kit)

ACTentry V-IP Control Unit

Features

- ethernet interface unit
- converts video and audio signals from door entry panel to TCP/IP data
- door and alarm inputs and outputs
- echo cancellation control

Product Code included in kit

ACT Entry

ACTentry V-IP Software

Features

- unlimited users
- auto video pop-up or discrete mode
- video bandwidth can be set according to network constraints
- grant / deny access
- volume control
- set door open & call answer timers
- call routing
- events logging

Product Code included in kit

ACTentry V-IP PC Handset

Features

- handset plugged into PC
- indoor use only

Product Code ACTentry V-IP Handset
(sold individually or included in kit)

ACTentry 1Amp Power Supply

Features

- 1amp, 12 Volt DC power supply unit

Product Code ACTentry 1A Power Supply
(sold individually or included in kit)

ACTpro-X 1030PM Reader

can be integrated into the Door Entry Panel

Features

- panel mount multi-format proximity reader
- indoor/outdoor (IP67)

Product Code ACTpro-X 1030PM

For use with ACTpro-X 1030PM

for a full list of suitable cards & fobs see page 25

ACT RFID

PROX BY HID

Audio Door Entry with Access Control

ACTentry A10 Kit

Audio Door Entry & Access Control Kit

Features

Each kit comprises a
- door entry panel
- handset
- power supply unit

Kit does not include locks

Product Code
Surface Mount Kit: ACTentryA10VR-SK
Flush Mount Kit: ACTentryA10VR-FK

ACTentry A10 Door Entry Panel

Features

- audio door entry and access control
- connect up to 4 Door Intercom Handsets
- incorrect code lockout
- 10 user codes
- 2 user groups
- push to exit input
- door monitoring / contact input
- tamper output
- fire alarm override
- interlock
- toggle mode
- 2 x 5 amp, 30 Volt relays
- 2 x 100 mA Darlington Driver outputs
- vandal resistant, stainless steel panel
- incorporates call button, speech unit and ACT 10 digital keypad
- keypad backlighting
- surface / flush mount options
- indoor / outdoor (IP54)

Product Code
Surface Mount: ACTentryA10VR-S
Flush Mount: ACTentryA10VR-F

ACT Entry

ACTentry A10 Door Intercom Handset

Features

- white high impact ABS plastic
- internal use only
- 'lock release' push-button
- reduced tone volume when off hook
- adjustable volume control

Product Code ACTentry A10 Intercom Handset

ACTentry 1 Amp Power Supply

Features

- 1amp, 12 Volt DC power supply unit

Product Code ACTentry 1A Power Supply

Product Specifications

ACTentry V-IP Audio / Video over IP

Number of PC Users	**u**nlimited (subject to network capabilities)
Number of Doors	8 (door entry panel and control unit required for each door)
Operating Voltage	10 - 15 Volts DC
Current Consumption	450 / 500 mA
Operating Temperature	-10 to +50°C
Door Open Time	0 – 255 seconds
Relay Contact Rating	*Door Relay*: 5A / 30 V DC *Alarm Relay*: 1A / 24 V DC
Mounting	surface or flush
Installation	outdoor
IP Rating	IP54
Construction	brushed stainless steel panel
Door Entry Panel Dimensions (H x W x D, mm)	*Flush Mount:* 378 x 144 x 11 *Surface Mount:* 358 x 125 x 38
Door Entry Panel Weight	*Flush Mount:* 2,650g *Surface Mount:* 2,751g

ACTentry V-IP Software

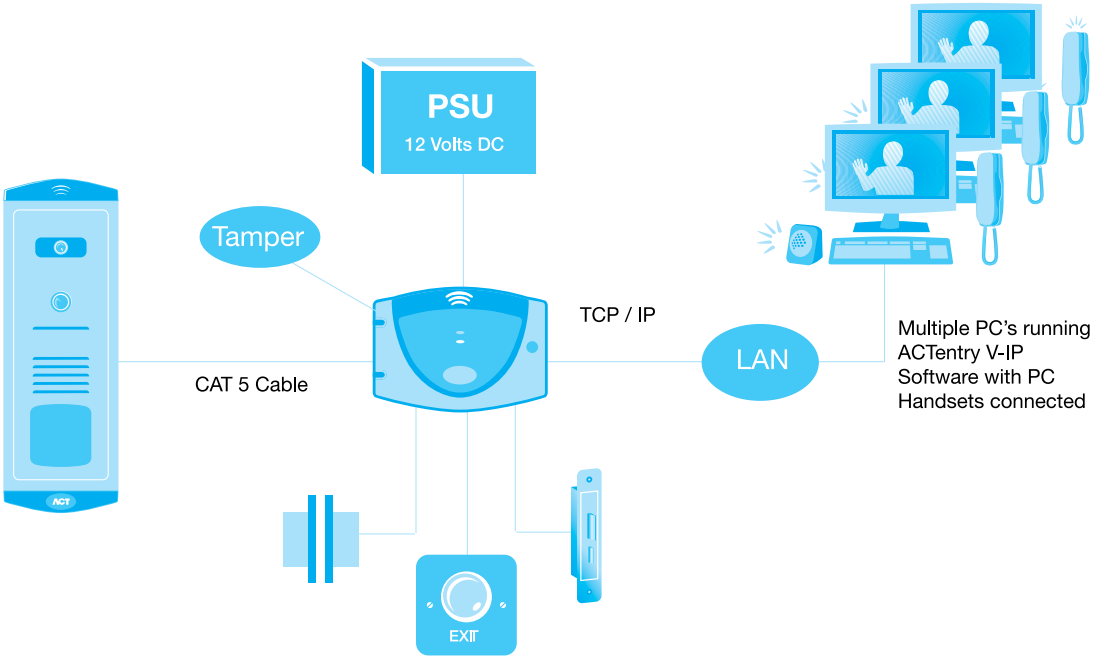
Network Connection	Ethernet or FastEthernet LAN connection with TCP/ IP protocol (100MBps prefered)
Memory	512MB RAM, Pentium 3 Processor, 1GB Hard Disk space
Operating systems	Windows XP, Windows 2000, Windows Vista.
Hardware	CD ROM drive (installation only), sound card

ACTentry A10 Audio Door Entry System

Number of Users	10 PIN codes
Operating Voltage	12 Volts AC or DC
Current Consumption	30 / 100 mA
Operating Temperature	-10 to +50°C
Door Open Time	0 – 255 seconds
Relay Contact Rating	5A / 30 V DC
Mounting	surface or flush
Installation	indoor or outdoor
IP Rating	IP54
Construction	brushed stainless steel panel
Door Entry Panel Dimensions (H x W x D, mm)	*Flush Mount:* 378 x 144 x 11 *Surface Mount:* 358 x 125 x 38
Door Entry Panel Weight	*Flush Mount:* 2,150g *Surface Mount:* 1,890g

Product Schematics

ACTentry V-IP audio video over TCP / IP with multiple users



ACTentry A10 audio door entry with up to 4 handsets

Installation Notes

ACTentry V-IP Audio Video over TCP / IP Door Entry

ACTentry V-IP Door Entry Panel

- Mount on a wall near the entrance point and in a sheltered location
- Sink or mount onto the mounting surface at a height which puts the camera lens at eye level

ACTentry V-IP Control Unit

- Mount in secure place with an Ethernet network connection point in close proximity, no greater than 100 metres from the door entry panel.
- A 12 Volt DC , 1 Amp power supply is to be used to power the unit and the door entry panel audio and video module's.
- The door entry panel and the unit are to be wired together using one CAT 5 twisted pair Cable. Audio and mic must be on one pair and video and 0V on another pair.
- The VIP can be configured with a static IP address for the LAN or get it's IP address from the DHCP server.

ACTentry V-IP Software

- PC should be connected to a TCP/IP network.
- Install on any PC where the user is expected to answer calls and allow access to the building
- Use the CD provided to install the software.

ACT PC Handset

- Mount the PC Handset in a location that is easily accessible and unobstructive for the user.

ACTentry A10 Audio Door Entry

ACTentry A10 Door Entry Panel

- The unit should be mounted on a wall near the entrance point, and in a sheltered location
- Remember to place the supplied varistor across the terminals of the door strike coil to protect the relay contacts
- Never use the on-board relay to switch AC mains voltage. An external relay, electrically isolated from the ACTentry A10 should be used for this purpose.
- Remember to change the programming code

ACTentry A10 Door Intercom Handset

- The ACTentry Door Intercom Handset (handset) operates from 12 Volt AC or DC
- The handset is designed to be wall mounted in a convenient indoor location
- For optimum speech clarity, it is strongly recommended that this system should be installed using twisted-pair telephone cable.
- Up to a maximum of 4 handsets may be installed per Door Entry Panel
- The maximum distance between the Door Entry Panel and the last handset is 100 metres.

ACT Entry

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Customer Services

Adding value to ACT products the ACT Customer Services department provides a variety of support structures for all clients

Customer Services

Training

Certified training is an important element of the security industry and ACT has developed certified training courses for our products. These courses are tailored to provide the fundamental skills required to design, install, commission and operate access control systems. We can work to develop bespoke training modules tailored for your organization.

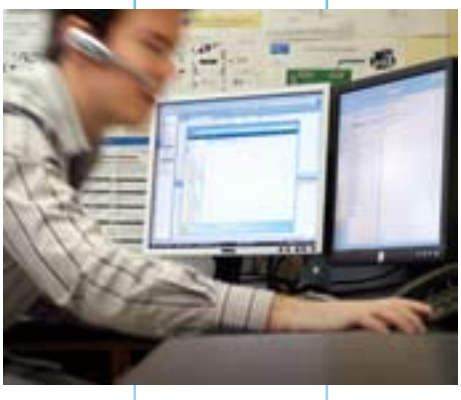
A full range of training programs cover standalone, master-slave and networked access control solutions.

Each module is instructor led, hands on and teaches the installer how to configure ACT products and systems.

Technical Support

Access Control Technology has a team of qualified and experienced engineers to assist with any problems relating to access control.

If problems are not resolved then they are automatically escalated to the 2nd level support team at which stage the hardware and software engineers may be involved to assist in resolving the particular issue.



Customer Services (contd.)

Development & Systems Integration

ACT offers a one stop totally managed service from Project management, development, testing, installation and training by experienced staff.

The customer service department has been involved in developing and project managing many bespoke solutions and integration projects from 3rd party database; most notable Microsoft's LDAP – Active Directory and large human resources databases. It has also been involved in modifying the behaviour of the ACT hardware to accommodate customers requirements.

On Site Support

The ACT customer services team is available to provide clients with on site support and guidance when required. This is particularly useful when detailed knowledge of access control technologies is necessary or where the experience of large database technology, IP networking, computer security or integration is not readily available.

Consultation Services

ACT Customer service and sales departments are always on hand to assist with tender specifications and system design and in developing a solution for the customer.

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Appendix

Glossary of Terms for Access Control

Access
Action of entry into or exit from a security controlled area.

Access Authorisation
Permission granted to a token enabling the holder to enter a location based on a programmed time schedule.

Access Control Report
Reports indicating the movement (entry or exit) at each access location on the system and the users who have passed through.

Access Control System
A system which comprises all the constructional and organisational measures as well as those pertaining to the apparatus which are required for controlling access

Access Control Unit
Device which makes the decision to release one or several access points and manages the associated control sequence

User Group
A number of users sharing the same doors at the same time

Access Point
The location at which access can be controlled by a door, turnstile or other secure barrier

Access Point interface
Device which controls releasing and securing of an access point

Access Point Reader
Device used to extract recognition data from a token or biometric. The device can have an associated keypad when used with memorised information.

ACTWin
A computer application for use with the ACTpro family of door access control units

ACTWin pro
Client/Server version of ACTWin for use by simultaneous users.

ACTWin lite
Single user version of ACTWin.

ACTpro
Is a family of access controllers, door expanders and readers which can be networked and connected to the ACTWin application to ease configuration. The pro controllers support 2 doors directly and expandable to 16 doors using door expanders. The configuration can also take place at the controller which is useful if the customer does not have a computer or the computer has failed.

ACT Standalone Keypad
A single door control unit with no links to other controllers or PC applications.

ACT Smart Keypad
Is a family of intelligent standalone door controllers with pro functionality, which can be networked together and configured from a master keypad or a PC using the ACTSmart software.

Alert
Request for human intervention after the activation of an indicator

Annunciation
Presentation of the information to management or other system

Apas
Access point actuators and sensors. Examples of actuators are electrical door openers, electric locks, turnstiles and barriers. Examples of sensors are contacts, switches, pressure signalling devices and door switches

Apas closed
An apas is closed when the access point does not afford free passage

Apas open(ed)
An apas is open(ed) when the access point affords free passage

Apas violation
Unauthorised operation of an access point

Area controlled anti-pass back
Operating mode which requires the user to be present in a designated security controlled area in order to be able to enter another security controlled area.

Anti-Passback
Operating mode which requires user validation when leaving a security controlled area In order to be able to re-enter and vice versa

Audit trail
A report of any changes made to a system.

Biometrics
Information which is referring to unique physiological attributes of the user

Break Glass
Usually a mechanical switch which breaks power going to the lock.

Clock and Data
A specific data communication protocol which is an industry standard for the serial transmission of information.

Controlled Area
An area where the entrances and exits are controlled by an access control system.

Degraded Mode
Mode where access is granted without performing all the full processing

Duress Alarm
Information providing the same results as a memorised information and
which initiates an alert

Door Command Facility
Facility that allows an authorised computer operator to open / close a door on the system from their terminal

Door Open Time
The time allowed for an access point to remain open after a valid authentication.

Door Strike
An electro-mechanical device used to lock and unlock a door under electrical control.

Egress Button
Also referred to as push button (PB), exit button (EB) or request to exit button (RTE). which indicates to the access control point that the user wishes to exit.

Event
A change occurring within the access control system

Event log
A record of a series of events.

Exit
A way out of an area which may or may not be controlled.

Factory Default
A term commonly used to define resetting a device back to the settings it had when leaving the factory.

Fail Safe
Mode where apas affords free passage (apas open(ed)) when the power is removed.

Fail secure
Mode where apas does not afford free passage (apas closed) when the power is removed

False acceptance
The granting of access to an authorised user

False rejection
The denial of access to an authorised user

Glossary of Terms for Access Control cont'd

Fault condition
Any condition which leads to the interruption or degradation of the access control system's functionality.

Guard Tour
A defined route of a security guard.

Ingress
To enter (opposite of egress)

Logic Anti-Passback
See anti-passback

Memorised information:
Information known to the user

Monitored
Senses the state of the door, if it is open or closed

Mullion reader
A reader designed to be mounted on the door frame.

Noise
Unwanted signals present on data lines.

Normal condition
The access control system is fully functional and able to process all events according to the pre-set rules.

Off-line
A term used to define communication which cannot be established between two network devices.

On-line
A term used to establish that communication has been established between two network devices.

Password
A special sequence of characters (letters, numbers, symbols) that are used to gain access to a computers operating system or an application.

Photo ID
An electronic photo of the user which is stored in the access control database. This photo can be used for visual verification or printing onto the user access card.

PIN
Personal Identification Number.

Power Supply
That part of the access control system which provides power for the operation of the system or any part thereof

Processing
The comparing of information with pre-set rules to make decisions concerning the granting or denying of access to users and/or the comparing of event with pre-set rules to produce appropriate actions

Programmability
Ability to receive and store pre-set rules

Protocol Convertor
Data transmission convertor i.e RS232 to RS485 or vice versa.

Proximity
Radio frequency technology used in access control, where a token is presented to a reader. The read ranges can be from a few mm up to 50m as with the ACT433 Tx.

PSU
Power Supply Unit see Power supply

Pulse
A positive or negative change in voltage on a circuit

Reader
See access point reader

Release
The signal to the apas that access has been granted

Real time download
Information which can be downloaded in real time from the PC to the controller such as the change in a users access rights.

Radio-frequency identification device (RFID)
These are tokens which use radio frequency (RF) to transmit the ID which is stored in the token.

Roll call reports
Reports indicating who is present or absent.

RS232
A data communication industry standard for the serial transmission of information, the transmission distance can be from 20m up to 30m approx.

RS485
A data communication industry standard for transmission of information the transmission distance is a max 1.4km.

Relay
A magnetically operated mechanical switch.

Security Control Unit
Area surrounded by physical barrier, including one or more access points

Smartcard
A smartcard is a card with an integrated microprocessor that can record data which can be used for access control, cashless vending.

Site code
Part of the security code stored in the access card which identifies the installation the Access control token (card or fob) belongs to.

Tailgating
Where an individual tries to gain access by following behind an authorised user.

Tamper Protection
Methods used to protect an access control system or part thereof against deliberate interference

TCP/IP support
Data communication protocol most commonly used for computer networks and the internet.

Timed Anti- Passback
Timed anti-pass back Operating mode which inhibits the access granting process at an Access point or to a security controlled area for a preset period for a particular user once that user has been granted access

Time & Attendance reports
Reports indicating the time a user has spent in the building consisting of arrival time, leaving time and duration which can be run for a defined period such as daily, weekly or monthly.

Time grid
One or more time zones allocated to the access level

Time Slot
Interval of time between two given moments indicating the beginning and end of a valid period within a time zone

Time zone
One or more time slots combined with calendar information

Toggle
A signal to the apas to grant access and remain in that state until toggle is deactivated usually by presenting or re-entering the token or memorised information

Token
Recognition data provided by access cards, keys, fobs, etc

Glossary of Terms for Access Control cont'd

Token holder
An individual who has been issued and holds an access control token.

Token Number
Coded number stored in the access control token (card or fob).

Transaction
An event which corresponds to the release of an access point following recognition of a user identity

Two users access condition
Procedure which ensures that access is granted provided two users have demonstrated their right of access within a preset period.

Unmonitored
Does not sense the open/closed status of the door.

Upload facility
Facility whereby the information stored in a controller can be uploaded to the PC.

Users
A person requesting passage through an access point

User Groups
Grouping of individuals who have common access rights such as office staff , production staff or security staff.

User identity
Information which is transferred directly or via a token by the user to the recognition equipment

User Tracking
Facility for identifying where a particular token was last used.

Wiegand
A specific data communication industry standard for the serial transmission of information can vary from 26-54 bits.